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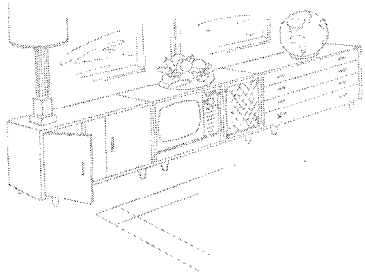

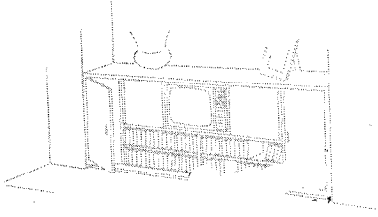

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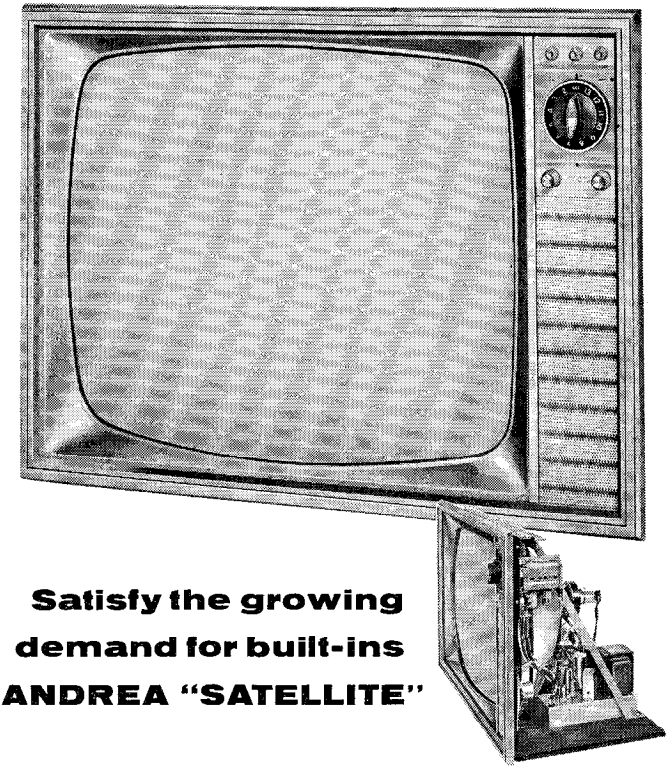

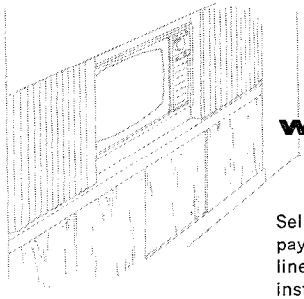

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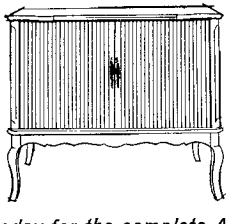

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A PREFACE BY THE EDITOR

This is the seventeenth edition of the World Radio Television Handbook in which we have attached importance to giving as much practical information as possible to short wave listeners in the hope that this will make it easier and quicker for them to pick up the broadcasts of the various countries and to identify the stations.

● We have three wishes to advance: the one is to help us by making WRTH as well-known as possible in all circles interested in radio and television in general and in short wave listening in particular; the other is to receive your criticism and wishes in regard to the contents of the 1963 edition.

● To broadcasting and television stations we direct an earnest appeal to send us regularly all corrections and particulars of extensions, which will then, be passed on for the benefit of listeners all over the world.

● This edition will be as well received as have been its predecessors and that it will serve its purpose: to help peoples all over the world to learn each other's cultures and modes of life, thus promoting understanding and good-will between them.

Thanks are due to all those who have assisted in various ways in the preparation of this edition – to all broadcasting and television organisations irrespective of politics, race or religion – to radio clubs and contributors in many countries all over the world, and to our many faithful advertisers.

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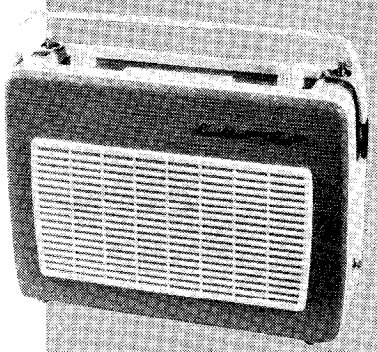

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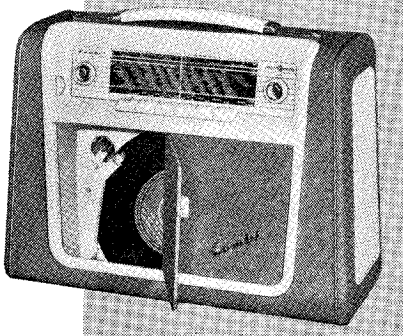

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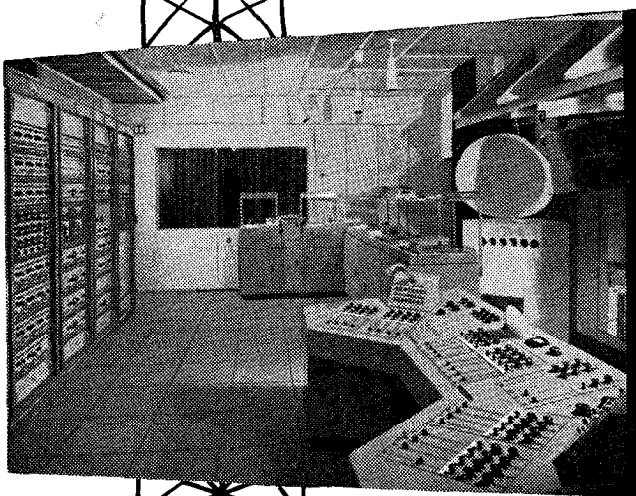

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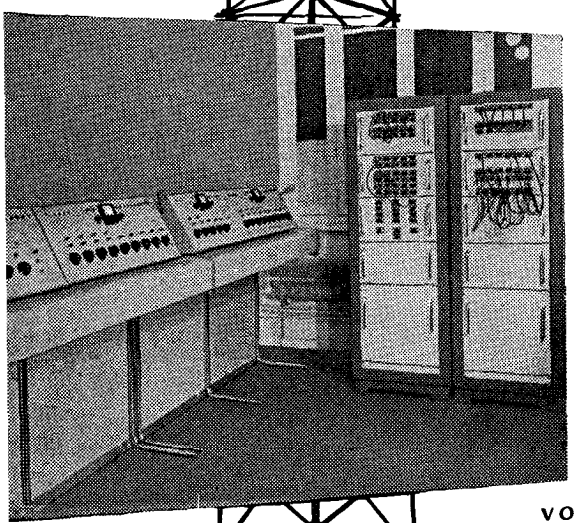

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BURMA: Burma Broadc. Service

CANADA: Canadian Broadcasting Corporation.

CYPRUS: Cyprus Broadc. Sce.

CZECHOSLOVAKIA: Ceskoslovensky rozhlas.

DENMARK: Danmarks Radio.

EIRE: Radio Eireann.

FINLAND: The Finnish Broadcasting Company.

FRANCE: Radiodiffusion – Télévision Française.

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Seventeenth edition

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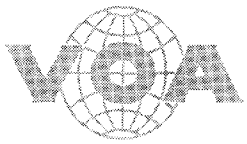
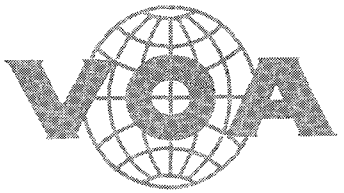
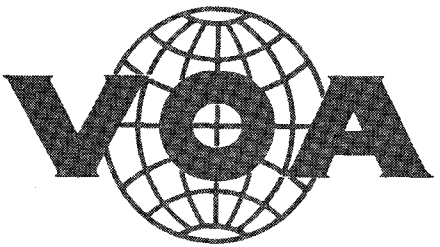
Virgin Islands 184
Windward Islands 184
Yemen 154
Yugoslavia 115
Zanzibar 132

We regret that it not has been possible in this edition to insert a list of News – broadcasts in the English Foreign Services. A list of these broadcasts will be forwarded free of charge to all who ask for it.







BROADCASTS IN
38 LANGUAGES
OVER A NETWORK
OF 91 TRANSMITTERS
AROUND THE CLOCK
AROUND THE GLOBE

VOICE OF AMERICA

U. S. INFORMATION AGENCY, WASHINGTON, 25, D.C.

PREFACE

JEAN D'ARCY

Director Radio and Visual Services, Office of Public Information, United Nations. I october.

For the first time in its history, television has, as of 1962, reached its normal and true dimension. It has now become international. Until now, with the exception of Eurovision and Intervision, the audience to be considered when producing a programme for each transmitting station was a national audience. For each viewer, regardless of the number of stations he was able to pick up, only a national picture could be received. For each country television was operating within its national borders. For each nation there had been created a new national audio-visual language in pictures and sounds and a programme praised in one place was practically unintelligible in any other. In an age of world-wide liberation and expansion, television, thirty years after its creation and its recognition as an instrument of better understanding, was becoming a tool of restriction and nationalistic withdrawal.

Through the communications satellites, the final stage will be reached very soon now of a global and international television – of a television without frontiers.

With the possibility of direct reports in pictures via satellites of any event taking place the world over, television, for the production of programmes, is now potentially in a position to enjoy the same facilities press and sound radio have been utilizing for many years.

For the dissemination of programmes, communications satellites, by providing the possibility of sending a programme from station to distant station for redissemination, will really break the national barriers. As Eurovision and Intervision have already demonstrated, this stage is the more important one.

United Nations Television is primarily interested in this latter aspect and, in the future, will be making use of communications satellites for world-wide dissemination of United Nations information material. Since the launching of Telstar several demonstrations have been made, through the courtesy of the American Telephone and Telegraph Company, showing the various possibilities open to the television organizations in Europe for receiving a programme originating at the UN. But the reporting of events is also important for the United Nations. When a global system is in operation, it will be one of the duties of United Nations Television to report immediately, via Telstar, on any international event threatening world peace.

The establishment of a global system will take some years, but the tool very often shapes the situation. As the coaxial cables and the microwave links have led to the creation of Eurovision and Intervision, so the existence of communications satellites will lead to the creation of a world-wide network, and through this global network to the creation of a world broadcasting union.

This organization will have to be initiated by the present broadcasting organizations, and should not, in any case, be imposed upon them by any authority in the world. It is for the broadcasting organizations themselves, with the duty they have to their own national audiences, to maintain their independence and their sovereignty, to initiate the establishment of such an organization. It is not for any other organization to promote such a professional union. The global television system to come does not have to be a U.N. system, but the U.N. hopes to be one of its main users.

The services rendered in the past by the *World Radio Television Handbook* have been substantial. For every radio and television professional in the future, in this age of space communications, it would really be difficult to work without it.

ION PAS

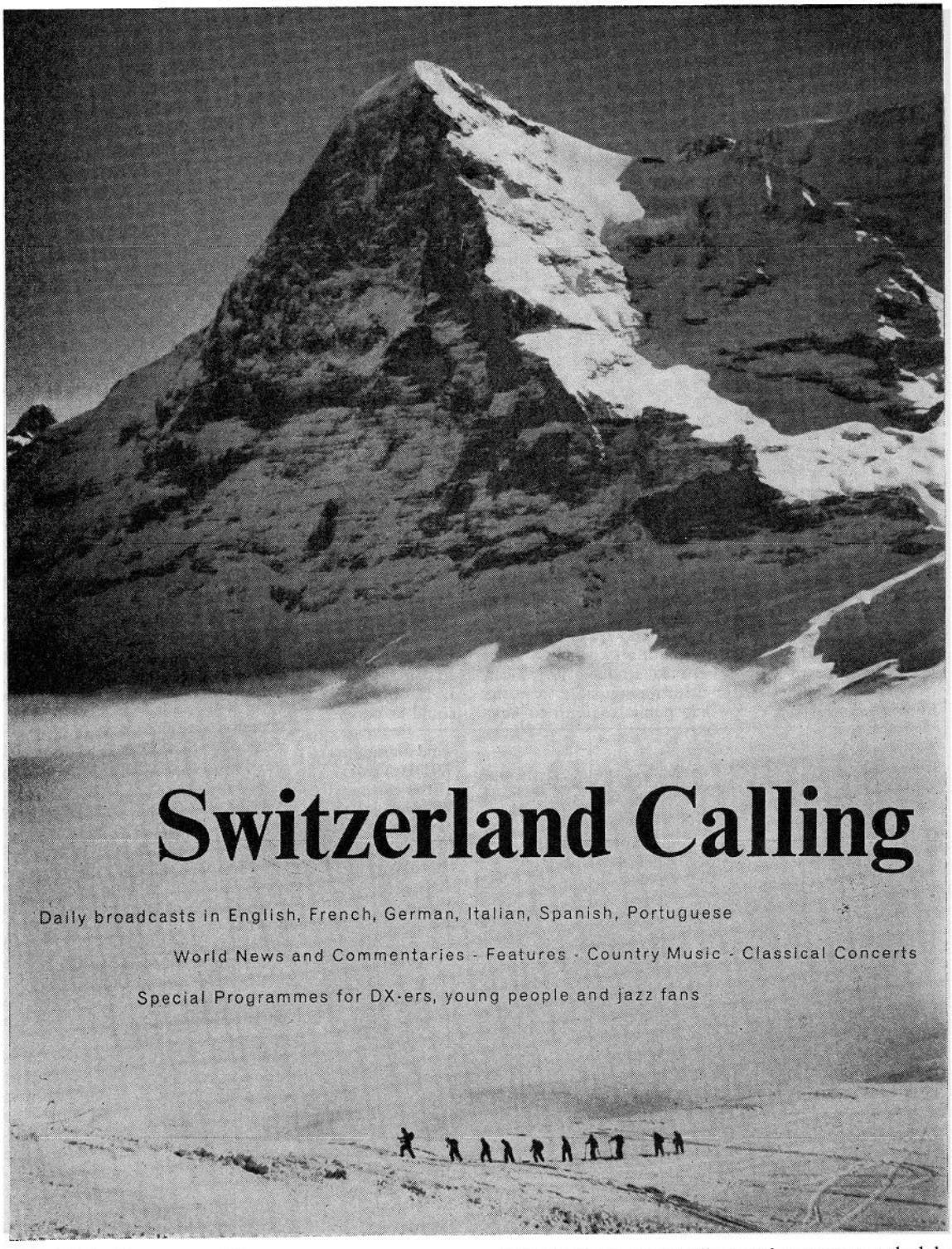
President of the International Radio and TV Organisation Chairman of the Rumanian Radio and TV

The role played by the Radio and TV in the life of the peoples all over the world is increasing considerably with every passing year. The important contribution made by the Radio and TV to the information of radio listeners and TV viewers, to the mutual knowledge of the spiritual values placed in the service of peace and progress, to the strengthening of the friendly relations among peoples, is generally admitted today.

The many programmes of the Rumanian Radio and TV serve these noble purposes. In order to achieve them, one of the preoccupations is that of strengthening the cooperation between the Radio and TV stations, of developing the exchange of experience and broadcasts.

Also in my capacity as President of the International Radio and TV Organisation I am convinced as well that the contacts between various international Radio and TV organisations could contribute to a thorough mutual acquaintance, to the development of an international cooperation in this sector of activity.

Along the line of the establishment of ever closer relations, the contribution of the *"World Radio Television Handbook"* is important and we are certain that in the future as well it will give a great help to the cooperation among the Radio and TV Stations all over the world for the promotion of understanding and cooperation among peoples.


Switzerland Calling
Daily broadcasts in English, French, German, Italian, Spanish, Portuguese
World News and Commentaries - Features - Country Music - Classical Concerts
Special Programmes for DX-ers, young people and jazz fans

For full details see page 110

Please write in for free illustrated programme schedule

EDWARD R. MURROW

Director United States Information Agency.

The free flow of information across international boundaries is indispensable to world understanding and peace. In this sense, radio and television are harbingers of hope that people of all nations can come to trust one another and, thus, live in amity.

In the end of the day, however, it may well be that the example of my country will be more important than its words. If we in our capacious land can demonstrate social justice and a reasoned concern for the education, welfare and equality under law of all our citizens, we will be sustained in the belief that our voice is heard everywhere with confidence in its fidelity to the American dream of freedom for all.

COLIN MACKENZIE

Editor
Telecommunication Journal
International
Telecommunication Union

Our present age is notable, not only for the prodigious advance of knowledge, but also for the accompanying growth in the demand for information. The more that is achieved, the more people want to know, the more they need to know. Information media of all kinds and at all levels have never before been so strained to collect, classify and channel out in readily-assimilable form the knowledge that the world-wide public requires to have within reach. The collection and dissemination of information has thus grown to-day into a major industry in the service of all the others and of the public at large. It is a service particularly necessary where the scientific and technological achievements of the age are concerned. Among these, telecommunications command intensifying world-wide interest.

The International Telecommunication Union, the oldest of all the organizations which now make up the United Nations family, has increasingly come to regard the publication of information for the benefit of its Member countries as one of its basic duties. But it is clear to-day that it is impossible for a single organization to carry out the task of providing all the necessary information on all aspects of telecommunications throughout the world.

That is why so many people undoubtedly welcome the service performed by the *World Radio Television Handbook*. To produce a compendium at once so compact and so comprehensive clearly demands infinite care and effort. It is difficult to see, professionally, how a better job could be done.

RALF BRENT

President WRUL World Wide Broadcasting, New York City, N.Y.

World television has now been accomplished. Telstar is a success. But the problems which must be overcome are tremendous. International copyrights, union agreements, negotiations between government broadcasting systems and commercially operated systems are still to come.

But the primary problem facing live worldwide television is one shortwave stations such as WRUL have faced for years: *Time.*

A 4 PM race in Tokyo at the Olympics in 1964, will be received at 2 AM in New York City. A 9 PM program from New York will be received at 3 AM in Paris.

Will the combination of worldwide radio and television – worldwide supersonic jet travel and the coming world-wide market make it necessary for there to be a WORLDWIDE TIME? The rays of the sun travel across the face of the earth at the equator at about 1000 miles per hour. What will happen when air travellers will arrive at their destination *before they leave?*

A 2000 mile an hour jet will leave London at breakfast and arrive in New York before breakfast. Going back, the traveller will leave New York at Midnight and arrive in London one hour later in flight time, at six o'clock in the morning. No sleep is the result.

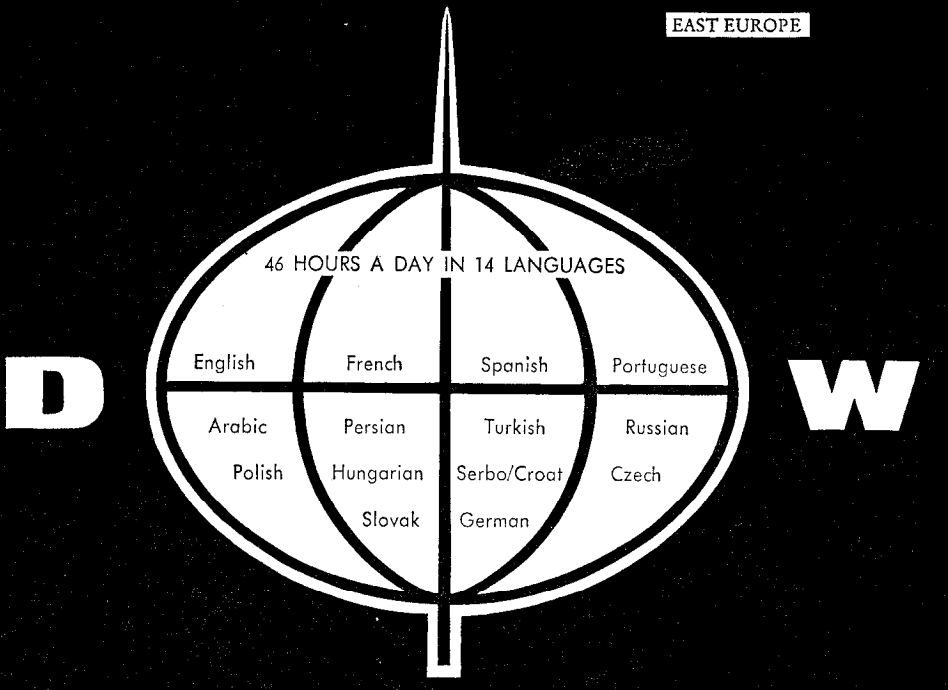
When the stock market in New York closes at 3:30 PM it is too late or too early in most of the world for the businessman to act on the information. If the merchant in Cairo wishes to talk by telephone to Honolulu, the person in Honolulu must be roused from bed to receive the call.

Time now is harnessed to the sun. Can we harness the sun to time? Can we devise satellites which will reflect the sun's rays to the dark side of the earth – so the world may operate on a single time? Everyone working at the same time – watching television at the same time – listening to radio at the same time – doing business at the same time – sleeping at the same time? – Too fantastic? Perhaps – but if communications become more important than daylight – if business and transportation need coincidental hours – it will come – WORLDWIDE TIME – with all the world on the same time.

Continued page 8

Deutsche Welle

FAR EAST
JAPAN
NEAR EAST
EAST EUROPE



MIDDLE EAST
NORTH AMERICA
LATIN AMERICA
AFRICA/MADAGASCAR

DEUTSCHE WELLE
COLOGNE, BRÜDERSTRASSE 1, P.O.B. 344
FEDERAL REPUBLIC OF GERMANY

TOKYO OLYMPIC GAMES 1964

Radio and Television Broadcasting Plan by Ichiro MATSUI Director Tokyo Olympics Broadcasting Headquarters

At the annual meeting of the International Olympic Committee held at Moscow in June 1962, the period of the 18th Olympic Games was decided from October 10th to 24th, 1964. The Japan Broadcasting Corporation (NKH) which is entrusted to make negotiations with foreign broadcasters concerning the broadcasting of the Games, received notices from 48 broadcasting organizations representing 42 countries signifying their intention to participate in the radio broadcasts of the Olympics and another 32 broadcasters representing 31 countries applied for TV broadcasts, as of October 10, 1962—just 2 years before the Tokyo Games.

During the 15-day period of the Games, 20 events will be held at about 30 sites. In consideration of the wishes of foreign broadcasters and past experiences in broadcasting the Olympic Games, NKH will establish about 320 radio and 180 TV broadcasting booths at all sites. NHK also plans to install 20 radio and 2 TV studios at a Radio Center, and 3 TV and 2 recording studios, 30 video tape and 8 kinoscope recording facilities at a TV Center.

With regard to the requirements of the foreign broadcasting organizations, in the case of radio, 32 broadcasters wish to make live transmissions from the competition sites to their respective countries and 41 broadcasters deferred broadcasts; in the case of TV, 17 stations wish to make video tape recordings, 18 stations kinescope recordings and 1 station plans to film—all of which under the present situation have to be airfreighted to their destinations. Among the events, for which broadcasts are desired by the foreign broadcasters, the most desired are track and field, which 60% wish to cover by radio and TV. Following track and field events, the order of preference is swimming, soccer, boxing, cycling and rowing in the case of radio; and swimming, soccer, boxing, rowing and gymnastics with TV. Especially, gymnastics and equestrian sports are desired for TV.

Sound for radio and TV as well as pictures from the competition sites will be relayed, in principle, to the Radio and TV Centers, respectively. Under the existing facilities, only radio sound can be relayed further to foreign countries by means of shortwave circuits. However, the under-mentioned three methods may become available in the future for relays by radio and TV.

The first is by communication satellites. TV relays between the US and Europe were successfully conducted in July 1962 by »Telstar« launched by the American Telephone and Telegraph Co. In order to utilize this method in the Tokyo Olympics, it is necessary to launch a communications satellite which orbits over Tokyo and to set up ground stations for relaying the signals to and from the satellite. The Japanese authorities concerned are now making preparations for the establishment of ground facilities.

The second method is the use of overland microwave relay network. This is now used by Eurovision and Intervision, etc. With regard to the relay from Tokyo to Europe and the US, one via Siberia, Southeast Asia, or the Aleutian Islands may be possible, but at present no concrete plan is being considered.

The third method involves the use of under-sea cables. It is expected that 128 telephone circuits between Tokyo and Hawaii will be completed in July 1964 jointly by Kokusai Denshin Denwa Co., Ltd. (Japan Overseas Telephone and Telegraph Co.), the American Telephone and Telegraph Co. and the Hawaiian Telephone Co. If this cable is connected with the existing cable connecting Hawaii and the American Continent, simultaneous radio relays can be made to Europe via America, and deferred telecasts will be possible by the method of transmitting film pictures frame by frame.

It is estimated that by the time of the Tokyo Olympics in October 1964, the number of TV sets in the world will reach 120 million and viewers 600 million. Just like the Olympic motto of »citius, altius, fortius« (faster, higher, stronger), NHK ardently wishes to transmit radio and TV broadcasts »faster and wider« to all listeners and viewers.

PREFACES *(continued from page 6)*

DOL RAMLI

Acting Director
Department of Broadcastng.
Federation af Malaya.

The power of Television and Sound Radio for good or ill is universally acknowledged. As such, no responsible country can afford to neglect its own Broadcasting service or maintain an air of aloofness with its neighbours. The increasing interest displayed by Asian countries in what goes around them, the need to communicate effectively within and without their own geographical boundaries, the desire to co-operate and learn from one another, and to entertain, inform and educate their own teeming millions – constitute welcome manifestations which have resulted in the holding of a series of conferences by Asian broadcasters since 1957. This year's Asian Broadcasters' Conference held in Kuala Lumpur was the best attended and most fruitful in terms of numbers, high level participation and concrete results. No doubt this manifestation augurs well for the future of not only Asian broadcasting but also desirably of inter-continental communication. Programmes of mutual assistance and understanding inside and outside Asia in all spheres of human activities should be encouraged to develop along healthy lines with global interests in mind.

To this end, the existence of every conceivable aid in the betterment of international communication and understanding is welcome. As such, the *World Radio Television Handbook* serves a useful purpose. I take this opportunity, therefore, to urge all broadcasting authorities of whatever political and ideological persuasions to provide accurate up-to-the-minute information and so continue to make the *Handbook* as authoritative as it has been in the past.

ref: GEN-21/62

Many's the face that has been saved by the safety pin... dependable little thing. On such a tiny item has embarassment been checked and success assured. Your equipment and your ultimate success are geared to the reliability of every component: the chain is only as strong as its weakest link, and catastrophy can follow just one small failure. You want the best. We know that. You want top performance and long life from your components. It's up to us to give you top quality, and our aim has been, and continues to be, the supply of components as reliable as modern techniques permit. Those who seek high standards in electronic component parts rely on Philips.

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BROADCASTING AND TELEVISION ORGANIZATIONS

EUROPEAN BROADCASTING UNION (E.B.U.) UNION EUROPEENNE DE RADIODIFFUSION (U.E.R.) EUROVISION

Seat and Administrative Office: 1, rue de Varembé, Genève.
Technical Centre: 32, av. Albert Lancaster, Bruxelles.
Monitoring Centre: Jurbise (Belgium).
International Coordination Centre for TV Programme exchanges (Eurovision): Palais de Justice, Bruxelles.
Administrative Council. President: O. Rydbeck, Director-General, Swedish Broadcasting Corporation. Vice-Presidents: M. Rodinò, Director-General, RAI-Radiotelevisione Italiana. H. Carleton Greene, Director-General BBC-British Broadcasting Corporation.
Administrators: Representatives of the broadcasting organizations in: Austria, France, Germany (Fed. Rep.), Italy, Netherlands, Norway, Portugal, Sweden, Switzerland, United Kingdom (BBC) and Yugoslavia.
Director of the Administrative Office and Secretary General: Ch. Gillieron, **Legal adviser:** Georges Straschnov, **Director of the Technical Centre:** Georges Hansen.
Active Members: The broadcasting organizations of: Austria, Belgium, Denmark, Finland, France, Germany (Fed. Rep.), Greece, Iceland, Ireland, Israel, Italy, Lebanon, Luxemburg, Monaco, Netherlands, Norway, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom (British Broadcasting Corporation, ITA and Independent Television Companies Association Ltd.), Vatican State, Yugoslavia.
Associate Members: The broadcasting organizations of: Australia (ABC, Federation of Australian Commercial Television Stations, Burma, Canada (CBC), Ceylon, Congo (Léopoldville), Dahomey, Federation of Rhodesia and Nyasaland, Ghana, Haiti, Japan (NHK and NAB), Morocco, New Zealand, Nigeria, Pakistan, Republic of South Africa, United States (ABC, CBS, NAEB, NBC, NETRC and BFA, US Information Agency), Upper Volta.
Publications: E.B.U. Review – every month in English and French, published in two separate parts: A (Technical) and B (General and Legal) – Long and Medium wave reports (Europeans Area) – Short wave reports.

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION – OIRT

Addr.: 15, U mrázovky, Prague 5, Czechoslovakia.
Cable: Interadif, Praha.
Nature: International organization dealing with practical and theoretical questions connected with broadcasting and television prg's and technique and cooperation between broadcasting and television organizations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members, Chairman for 1961–1963: Ion Pas, Chairman of the Rumanian Broadcasting and Television. Vice-Chairman for 1961–63: Representatives of the Radio and Television Organizations of the DPR of Vietnam and the Ukrainian SSR.
Members: Representatives of the Radio and Television Organizations of the German Democratic Republic; Chinese P.R.; Republic of Cuba; Polish P.R.; Rumanian P.R.; Czechoslovak S.R.; Ukrainian S.S.R.; U.S.S.R. and D.P.R. of Vietnam
Members: Radio and Television Organizations of: The P.R. of Albania; Byelorussian SSR; PR of Bulgaria, Chinese P.R.; Rep of Cuba; Czechoslovak S.R.; United Arab Rep./ Egypt; Estonian SSR; Finland; German Democratic Rep.; Hungarian P.R.; Iraq; Korean People's Democratic Rep.; Latvian SSR; Lithuanian SSR; Rep. Mali; Moldavian SSR; P.R. of Mongolia; P.R. of Poland; Rumanian P.R.; Ukrainian SSR; Union of Soviet Socialist Rep.; P.D.R. of Vietnam.
Facilities: Administrative Office and Technical Centre, Prague, Czechoslovakia.
Specialized Commissions: Technical Commission: Chairman A. Kozlowski, Polish P.R.; Radio Prgr. Commission: Chairman J. Tempe, Hungarian P.R.; Television Prgr. Commission and Intervision Council: A. Hradecky, Czechoslovak S.R.
Publications: Review of the International Radio and Television Organization (OIRT) "Radio & Television" in English, French, Russian, Chinese and German, issued every two months. Monthly OIRT Information, and quarterly Catalogues of prgr's suitable for exchange: a) radio, b) television.
Meetings: General Assembly every two years, Administrative Council every one year.
Relations with all important organizations active in the field of radio and television.

ASOCIACION INTERAMERICANA DE RADIODIFUSION (AIR)

President: The Mexican Broadcaster Lic. José Luis Fernández. Temporary Address, Paseo de la Reforma 400–302. México, D.F. Vice Pres's: Sr. Fernando Eleta A. (Apdo 1795, Panamá), Sr. Félix Cardona Moreno (Apdo 3955, Caracas, Venezuela). Secr.: Sr. Boris Eserski (Apdo Postal 720) San Salvador, El – Salvador).
AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 5000 broadcasting and 400 television stations. Its purpose is to preserve free and stable broadcasting, promote cooperation between broadcasting corporations and the public authorities, to raise the cultural level of the peoples, to work for the preservation of freedom of utterance and instruction and a closer feeling of association between the private broadcasting corporations on the American Continent. AIR has agreed with Sociedad Interamericana de Prensa about the revision of the so-called Panama Doctrine for the purpose of increasing the practical effectiveness of that pact and of making it a permanent means of defence for the preservation of democratic principle. AIR is recognized by the United Nations and collaborates with UNESCO, with the International Union of Telecommunications and with the organization of the American States. AIR has subscribed to the "Panama Doctrine" in which the American Radio and Press declare themselves united against any attack on individual liberty and restriction of the freedom of utterance. During the current year the institution has had intensive activity in defense of freedom of information in connection with events occurring in several countries.

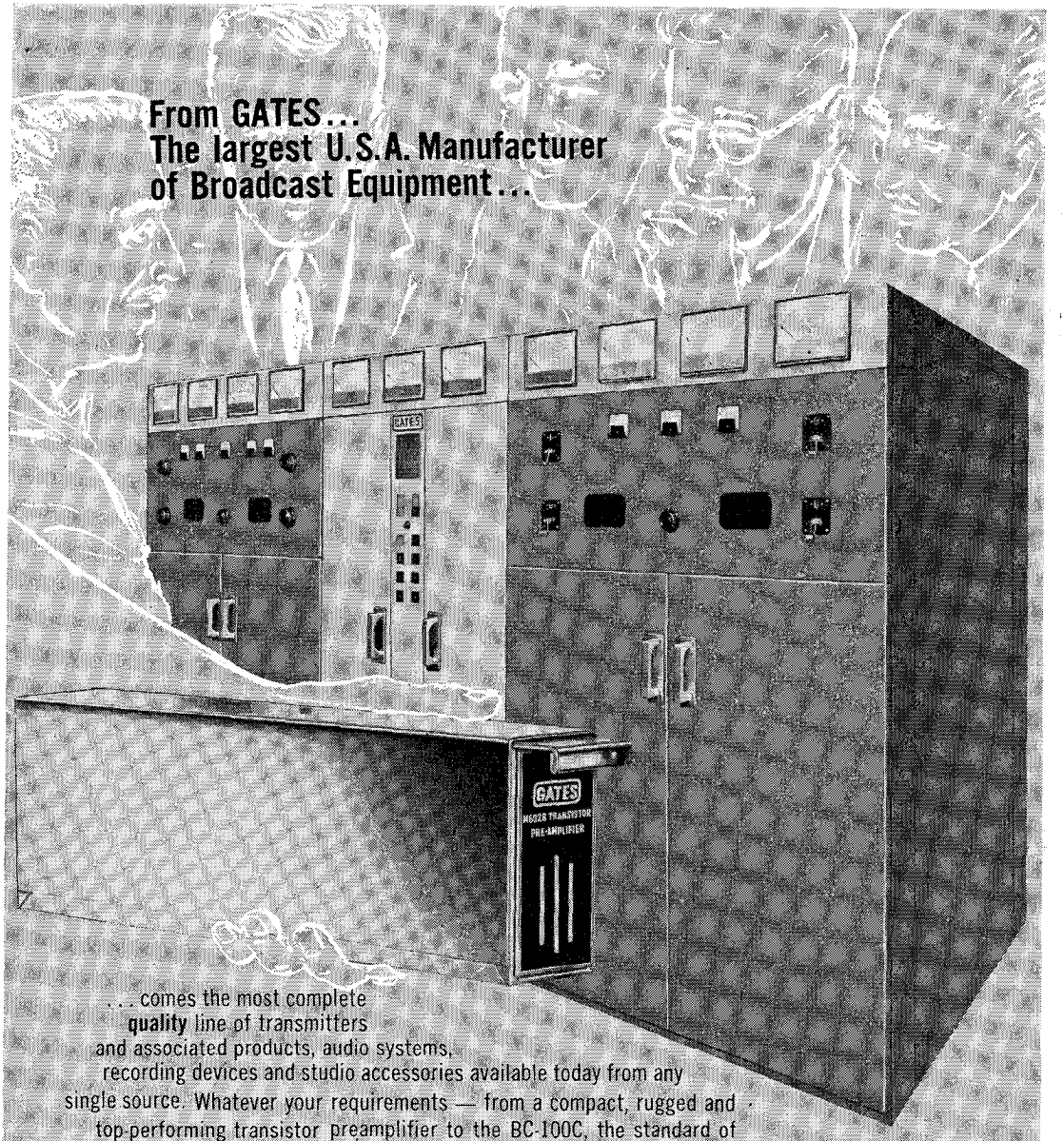
INTERNATIONAL TELECOMMUNICATION UNION

Addr.: Place des Nations, Geneva, Switzerland. Te.: 34.80.00.
Secretary-General: Gerald C. Gross.
International Frequency Registration Board (IFRB): Chairman: J. M. Gayer.
International Tel. & Tel. Consultative Committee (CCITT): Dir. J. Rouvière.
International Radio Consultative Committee (CCIR): Dir.: Dr. E. Metzler. **Study Group X** (Broadcasting): Chairman: A. P. Walker, USA – **Study Group XI** (Television): Chairman: E. Esping, Sweden – **Study Group XII** (Tropical Broadc.): Chairman: A. C. Ramchandani, India.
Administrative Council: Argentina, Australia, Brazil, Canada, China, Colombia, Czechoslovakia, Ethiopia, France, Germany (Fed. Rep. of), India, Iran, Italy, Japan, Mexico, Morocco, Philippines, Spain, Switzerland, Tunisia, United Arab. Rep., United Kingdom, United States, USSR, Yugoslavia.
Membership (114 Members, 4 Associate Members): Afghanistan, Albania (P.R. of), Saudi Arabia (Kingdom of), Argentine (Rep.), Australia (Commonwealth of), Austria, Belgium, Bielorussian (Soviet Socialist Rep.), Bolivia, Brazil, Bulgaria (P.R. of), Burma, Cambodia (Kingdom of), Cameroon (Rep.), Canada, Central African Rep., Ceylon, Chad (Rep.), Chile, China, Colombia (Rep.), Congo (Rep.),

Left: O. Rydbeck, Director General Swedish Broadcasting Corpo. and President of the EBU. Right: Ion Pas, Chairman of the Rumanian Broadcasting and Television and President of the OIRT.

Left: Lic. José Luis Fenández, President Asociacion Interamericana de Radiodifusion (AIR). Right: Gerald C. Gross, Secretary General Internatonal Telecommunication Union (ITU), Geneva, Switzerland.

Left: Tor Gjesdal, Director Dept. of Mass Communications Atnesco. Right: Chairman of the Fourth Asian Broadcasters Conference: Honorable Mohammed Ismail Yusoff. Asst. Minister for the Interior, Federation of Malaya.



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Associate Members: Bermuda-British Caribbean Group, British East Africa, Ruanda-Urundi (Territory of), Singapore-British Borneo Group.

UNESCO

(United Nations Educational, Scientific and Cultural Organization).

ADDR.: Place Fontenoy – Paris 7 – France. **L.P.:** Dir. Gen. p.i. René Maheu.

Department of Mass Communications: Dir.: Tor Gjesdal.

Radio and Visual Information: Chief: Jean A. Keim.

Programme Specialists: Jean Bhownagary (Asia), Jean Calvel (French language production), José Garza y de Garate (Spanish language production), Rex Keating (English language production), Gerald Wade (North America and Canada).

Mass Communication Techniques Division. Chief: Pierre Navaux.

Head of Radio and Television Section: Henry R. Cassirer.

AFRICAN RADIO TELEVISION UNION (URTNA)

The union calls for strengthening of the bands of brotherhood and amity existing between all peoples of the continent of Africa. The African Radio Union has as its aim the creation and consolidation of exchange and cooperation within the sphere of radio and television in order to attend to the interests of African broadcasting and to coordinate participation in international conferences.

The General Assembly of the Union of National Radio and Television Organisations in Africa met in Lagos 25th to 29th September 1962.

Participants at this Assembly include the Directors-General, Directors and Chief Engineers of Radio and TV Organisations of the following 23 countries: Cameroun, Congo (Braz.), Congo (Leo.), Dahomey, Ethiopia, Ghana, Guinea, Ivory Coast, Liberia, Libya, Mali, Mauritania, Niger, Nigeria, Republic of Central Africa, Senegal, Sierra Leone, Tanganyika, Tchad, Togo, Tunisia, United Arab Republic, Upper Volta.

Important issues decided by the Assembly include: The ratification of the Statutes of URTNA—Decision to locate the seat of the Union in Dakar, Senegal, and the technical Centre in Bamako, Mali—That the seat of the Union will be the Administrative Centre and would in the meantime handle the business of Programme Exchange until a Programme Exchange training Centre is established—Election of the Administrative Council was as follows: President – Guinea: Diallo Alpha. Vice-President: Thiam Amadou, Ivory Coast – Administrators: Nigeria, Ghana, Togo, Tunisia, United Arab Republic, Senegal, Cameroun. The Administrative Council is entrusted to apply to the United Nations and its specialized Agencies.

The next General Assembly is fixed and shall sit in Brazzaville, Congo in October, 1963 on a date to be notified.

FOURTH ASIAN BROADCASTERS' CONFERENCE 1962

The Fourth Asian Broadcasters' Conference in Kuala Lumpur (24th–30th August, 1962) proved to be the best attended since the series started in 1957. The Conference was opened by the Prime Minister of Malaya, Tengku Abdul Rahman. The Chairman was Mohd. Ismail Yusof and Secretary General Mohd. Sopiee. Among the many significant decisions taken were:

1) The decision to form an organised body for the first time, viz. Asian Broadcasting Union. The countries adhering to this decision are as follows: Australia, China, India, Indonesia, Japan, Korea, Laos, Malaya, New Zealand, Pakistan, Philippines, Saudi Arabia, Thailand, Turkey, United Arab Republic and Vietnam. Burma has not been included in the list at the request of its delegation.
2) The Conference has accepted the invitation of the Government of the Republic of Korea to hold the 5th Asian Broadcasters' Conference in Seoul approx. May 16th, 1963.
3) To be accredited to UNESCO on the basis of mutual information relationship.
4) The Conference deprecates the jamming of broadcast transmissions and calls upon the United Nations and other international agencies to take appropriate action against this harmful practice.
5) The Conference recognises that the highest aim of broadcasting to other countries is to promote enlightenment, understanding and goodwill between peoples.
6) The adoption of a common Broadcasting Code and of Ethics for Overseas Broadcasting.
7) Publication of a Journal for Asian Broadcasters.
8) Exchange of Programmes, Information and Personnel.
9) Appointment of Liaison Officers in member countries and territories.
10) Recommendation for those countries embarking on TV to consider the adoption of the 625-line Western European standard.
11) To set up in progressive stages necessary facilities for relay of Telecasts in Asian countries – ASIAVISION.
12) To carry out technical research for better Radio and TV relays during the 1963 Olympic Games in Tokyo.

The following were member countries and territories of the Programme and Engineering Committees: Burma, India, Japan, Korea, Laos, Federation of Malaya, Pakistan, Philippines, Saudi Arabia, Thailand, (Turkey), United Arab Republic, Vietnam, Australia, Brunei, Hong Kong, (New Zealand), North Borneo, Sarawak, (United Nations and UNESCO), and Singapore. (Countries in brackets only in the Programme Committee).

In connection with the A.B.C. Conference, the Planning Committee also arranged a successful Radio and TV Exposition at the magnificent new indoor Stadium called "Stadium Negara" as well as a Radio and TV Engineering Symposium.

UNIVERSITE RADIOPHONIQUE ET TELEVISUELLE INTERNATIONALE (U.R.I.)

Founded by Radiodiffusion Télévision Française.

Addr.: 4, rue Sainte-Anne, Paris 1°, France. **L.P.:** Pres.: Théo Fleischman. Adm. Dir. Gen. Radiodiffusion Nationale Belge – Gen. Sec.: A. Lanoux.

Member of the Permanent Committee: **Radio:** R. Dovaz (Switzerland); E. Gampe (Austria); R. Behal (Czechoslovakia) – **Télévision:** S. Pugliese (Italy); Niels-Erik Baehrendtz (Sweden) – **Secr.:** Head of Coordination Dept.: G. Druon; Cultural Adviser: L. Foucher; Scientific Adviser: P. Ostoya; Chief Intern. Sce.: O. Duchateau.

38 countries have joined the work of U.R.I.

THE INTERNATIONAL FILM AND TELEVISION COUNCIL (I.F.T.C.)

Non-governmental organization, independent, non-profit-making, and open to representative international federations or associations whose work lies in the field of the film and television.

The Council seeks to further the work of its members by arranging meetings and consultation between them, and acting as a link for the exchange of information and for cooperation in many ways. It thus provides, for the first time, machinery for international action in both film and television.

Pres.: John Maddison – **Vice-Pres.:** Charles Delac and Jean d'Arcy – **Hon. Treasurer:** Jean Jay – **Hon. Secr. and Dir. of Rome Office:** Mario Verdone – **Administrative Secr.:** Sylvia Antebi. – **Addr.:** via Santa Susanna 17, Roma (Italy).

RELIGIOUS BROADCASTING ORGANIZATIONS

EVANGELIC

WORLD ASSOCIATION FOR CHRISTIAN BROADCASTING

in process of formation, (continuing the work of the former "World Committee for Christian Broadcasting").

Chairman: Dr. Nicholas van Gelder, Eemstraat 6, Soest, The Netherlands – Vice Chairman: Dr. Harry Spencer, 610 Westview Ave., Nashville, Tenn., U.S.A. – Executive Director: Dr. Sigurd Aske, P.O. Box 654, Addis Ababa, Ethiopia – Publication: "The Christian Broadcaster", a magazine published three times a year in English. – Editor: The Rev. Douglas Stewart, Asst. Head of Religious Broadcasting, The British Broadcasting Corporation, Broadcasting House, London, W. 1. **Hon. Chairmen:** The Rev. W. Burton Martin, New York, USA, Pastor H. W. von Meyenn, Bethel bei Bielefeld, Germany. **Pres.:** Dr. Nicolas van Gelder, Utrecht, Holland. Vice Pres.: Dr. Farid Audeh, Lebanon, Dr. G. P. Charles, Burma.

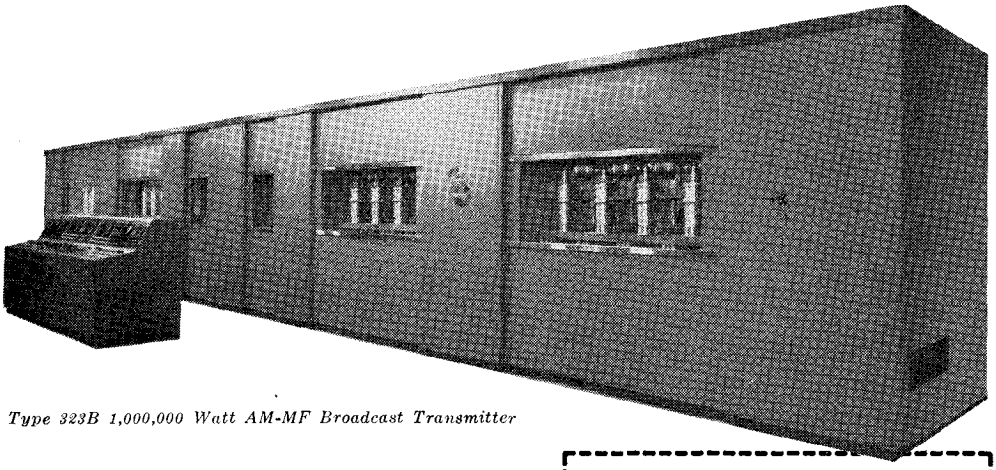
WORLD COUNCIL OF CHURCHES

The Rev. Michael de Vries, Secretary for Broadc. Department of Information and Secr. for relations between the World Council and Christian Broadcasting Organizations. **Addr.:** 17, route de Malagnou, Geneva, Switzerland.

The Lutheran World Federation. Same adress. The committee on Latin America has its office

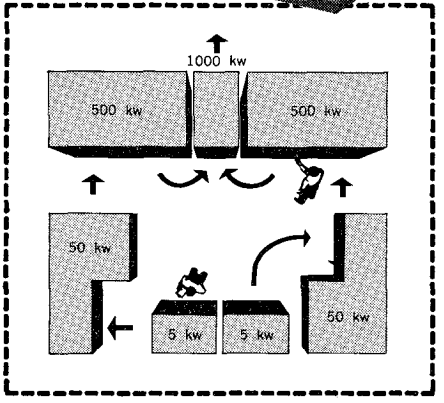
Continental transmitters easily E-X-P-A-N-D from

5,000 watts to 1,000,000 watts



Type 323B 1,000,000 Watt AM-MF Broadcast Transmitter

This super power broadcast transmitter delivers 1,000,000 watts of continuous carrier power to the antenna system. It consists of two Continental Type 320B 500,000 watt transmitters which are combined through network to provide the power output of 1,000,000 watts. Continental's Type 317B 50,000 watt transmitter serves as the driver stage for the Type 320B, and Continental's Type 315B 5,000 watt transmitter is the driver for the 317B. It is feasible to begin initially with Continental's Type 315B 5,000 watt MF broadcast transmitter and eventually have the Type 323B 1,000,000 watt transmitter simply by adding the various power groups. Continental developed the first super power 1,000,000 watt broadcast transmitters for the Voice of America. The Type 223B 1,000,000 watt LF transmitter was installed at Munich in 1953; similar Type 323B 1,000,000 watt MF transmitters were installed at Okinawa and Manila in 1953. Continental is currently building and installing a 1,000,000 watt broadcast transmitter for a foreign government.



POWER INCREASE CAPABILITIES

Diagram shows how Continental's Type 315B 5,000 watt broadcast transmitter becomes the driver unit for the Type 317B 50,000 watt broadcast transmitter; and in turn, how the Type 317B serves as the driver stage for the Type 320B 500,000 watt broadcast transmitter. Two Type 320B transmitters are combined through network to provide 1,000,000 watts of power to the antenna system.

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at 50 Madison Ave. New York 10, N.Y. and the address of the Lutheran World Federation Broadcasting Service is P.O. Box 654, Addis Ababa, Ethiopia – Executive Secr.: Rev. Kurt Schmidt-Clausen, Dr. Theol. Dir. of the Dept. of World Mission: Rev. Arne Sovik, Ph. D. Dir. of Broadcasting: Rev. Sigurd Aske, Ph. D.- Publication: Weekly news bulletin; quarterly the journal Lutheran World.

CATHOLIC:

Pontifical Commission for Motion Pictures, Radio and Television.
Addr.: Palazzo S. Carlo, Vatican City, State.
Pres.: Archbishop of Lasdicea in Syria the Most Reverend Martin J. O'Connor.
UNDA: Association catholique internationale pour la Radiodiffusion et la Télévision.
General Secretariat: Avenue de la Gare 6, Fribourg, Switzerland – Gen. Secr. Dr. J. Schneuwly.
Administrative Council consists of 12 members.
Pres.: Chanoine J. Haas, Lausanne, Suisse. Statut consultatif B à l'UNESCO.
Secretariat for Latin-America: Palacio São Joaquim 446, Rua da Gloria. Dir.: Melle Marina Bandeira, Rio de Janeiro, Brazil.
Members of the organization: Gr. Britain, Ecosse, North Rhodesia, Malta, Burundi, Congo/Léopoldville, Congo (Brazzaville), Ivory Coast, Central African Rep., Dahomey, Gabon, Upper Volta, Ruanda, Sénégal, Tchad, Togo, Djibouti, Réunion, Guadeloupe, Martinique, Guyane, New Caledonia, S. Lucie.
UNDA-Nouvelles: French, English, German.
News revue: The Secretariat for Latin America publish a monthly revue called: "Informacion UNDA-ULAPC, *imprimé*".

RELIGIOUS SOCIETIES

EVANGELIC

EUROPE:
IKOR, Interkerkelijk Overleg in Radio-aangelegenheden, Hilversum, Borneolaan 27, Holland.
NCRV, Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum, Holland.
VPRO, Vrijzinnig Protestantse Radio-Omroep, Hilversum, Holland.
Radio Reveil, Via Tesserete 51, Lugano, Switzerland.
Nordic Radio Evangelistic Association, Grensen 19, Oslo, Norway. In connection with Norwegian Lutheran Mission. Cooperating with Trans World Radio, Monaco. Broadcasting over R. Monte Carlo. (See Norway).
IBRA Radio Mission, Box 821, Stockholm 1, Sweden. Memberorganization: IBRA Radio Federation is an international federation of listeners. (See Sweden).

AFRICA:
The Federation of Churches in Yaounde, Cameroon. B. P187; A Ravemcco related agency.

AMERICA:
National Religious Broadcasters, an association of Protestant national and international broadcasters on radio and television. Pres.: Dr. E. R. Bertermann, 210 North Broadway, Saint Louis 2, Missouri.

Difusiones Inter-Americana (DIA), an evangelical organization, etablished to produce, process, distribute and promote radio and television programs, recordings and audio visual aids for the evangelizing of Latin America. – Addr.: Apt. 2470, San José, Costa Rica.

Latin America Mission, 285 Orchard Terrace, Bogota, N.J. and Apt. 1307, San José, Costa Rica. Pres.: Dr. R. Kenneth Strachan. Radio Dir.: Paul Pretiz. Publ.: "Radio Headlines".

The Evangelical Allicance Mission, 2845 West Mc Lean Av., Chicago 47, Ill., USA. Gen. Dir.: D. H. Johnson.

The Gospel Missionary Union. Headquarters, 1841 East Seventh Str., Kansas City 24, Missouri, USA. Pres.: Don P. Shidler. Publ.: *Gospel Message.*

West Indies Mission, R. D. 1, Box 279 Homer City, Penn. USA – Dir. Gen.: Rev. E. V. Thompson. Superintendent of Haiti Field: Rev. David Hartt. Publ.: "The Whitened Harvest". Is working in the West Indies and in South America.

Broadcasting and Film Commission **NCCUSA,** New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 27, Exec. Dir.: S. F. Mack.
RAVEMCCO, New York, USA. Radio, Visual Education and Mass Communication Committee of the Division of Foreign Missions of the National Council of the Churches of *Christ in the USA, 475 Riverside Drive,* New York 27, N.Y., Exec. Secr.: Dr. B. M. Luben.

Far East Broadcasting Co., Inc., P.O. Box 1, Whittier, California. Pres.: Robert H. Bowmann. Private Comp. with no member organizations. Publ.: "The Broadcaster" monthly.
The Lutheran Hour "Bringing Christ to Nations", Saint Louis, USA. Sponsored by The Lutheran Laymen's League, 2185 Hampton Avenue, St. Louis 10, Missouri. Exec. Dir.: P. Friedrich. Dir. Broadc.: C. Thomas Spitz.

The Oriental Missionary Society and the Inter-American Missionary Society, 850 N. Hobart Blvd. Los Angeles 29, California, USA. Pres.: Dr. Eugene Erny. Dir. Haiti Field incl. allied missionary activities: E. Turnidge, Box 1, Cap Haitien, Haiti.

World Radio Missionary Fellowship: Talcottville, Conn., USA. Pres.: Dr. Clarence W. Jones. Operates La Voz de los Andes HCJB Ecuador; No. American Headquarters P.O. Box 691, *Miami 47, Florida.* Pres.: Abe C. Van Der Puy (his addr. actually is Box 691, Quito, Ecuador).

World Conference on Missionary Communications organized in 1954 as a service agency encouraging a continuing dialogue between missionary radio and television agencies in every area for mutual and individual improvement, securing a greater impact in communicating the Gospel of Jesus Christ. Addr.: Talcottville, Conn., USA.

Lutheran Television Productions, a Board of the Lutheran Church-Missouri Synod, producing and distributing "This is the Life" and "The Fisher Family". Exec. Secr.: Dr. E. R. *Bertermann. Prgr. Dir.: Dr. H. W. Gockel,* 210 No. Broadway, Saint Louis 2, Missouri.

Canadian Baptist Foreign Mission Board, 190 St. George Str., Toronto 5, Ontario, Canada. Gen. Secr.: Dr. H. S. Hillyer. Works with the National Church in Bolivia, Angola, India.

ASIA AND PACIFIC:
Ravemcco. The Near East Christian Council: Rev. E M. Luidens, Exec. Dir. of the Radio Project of Radio-Audio-Visual Committee, Box 235, Beirut, Lebanon.

Christian Broadcasting Association, 420 Lyons Rd., Five Dock, Sydney, N.S.W., Australia. Man. Dir.: Rev. V. Turner. Radio prgr. production on behalf of Protestant Churches.

PLANNED STATIONS
EPI: Emetteur Protestant International, Post Office 392, Berne, Switzerland, TX: 1 sw. st. with two 250kW transmitters planned. L.: Prgr's in 17 languages planned. – **Org.:** Federation of Swiss Protestant Churches and the EPI Association. – **Trans World Radio:** A 100kW mw.-tr. and a 250kW sw.-tr. to be built on the Island of Curaçao, Neth.-Antilles. Prgr's planned in 22 languages directed to the Americas and Europe.

CHURCH OWNED STATIONS:

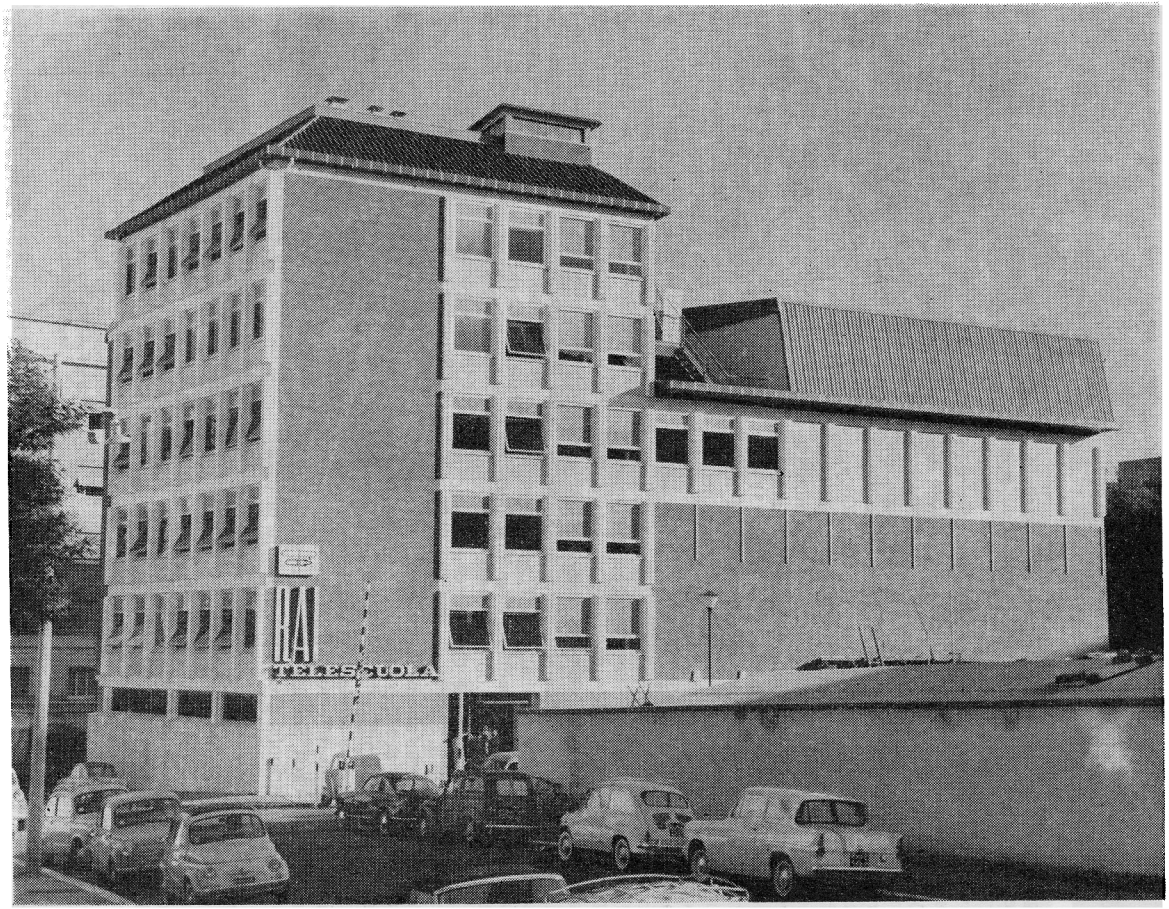
EVANGELIC

Alaska: The Voice of Arctic KICY, Arctic Broadc. Org., a branch of Evangelical Covenant Church of America. – Australia: 5 KA Broadc. Co., Methodist Church of Australia. Amalgamated Wireless, New South Wales Council of Churches. – Bolivia: La Cruz del Sur CP27/39, Canadian Baptist Foreign Mission Board. – Costa Rica: Faro del Caribe (TIFC), *Latin America Mission.* – Ecuador: Voice of the Andes HCJB and HCJB-TV, World Radio Missionary Fellowship Inc. National Evangelical Church HCETG (R. Tricolor). Gospel Missionary Union HCUE5 (R. Amazon, Macuma) and HCGM7. – Ethiopia: Voice of the Gospel: Lutheran World Federation. – Guatemala: R. Cultura TGNA, *Central American Mission.* – *Haiti:* La Voix Evangelique 4VEH, Oriental Missionary Society. R. Lumiere, West Indies Mission. – Hawaii: R. St. KAIM, Christian Broadc. Association. – Korea: The Christian Broadc. System (HLKY, HLKT, HLKP, HLCL, HLCM), Korean National Christian Council Radio Committee. Ravemcco-agency. St. HLKX, The Evangelical Alliance Mission. – Liberia: St. ELWA, Sudan Interior Mission. – Monaco: Trans World Radio, Intern. Evangelism Inc. – Nicaragua: Ondas de Luz YNOL, Latin America Mission and Association Cultural Nicaraguense. – Okinawa: KSAB, KSDX, KSBU, Far East Broadc. Comp. Inc. – Panama: La Voz del Istmo (HOXO), World Radio Missionary Fellowship and the Latin America Mission. – Philippines: DZAS, DZFE, DZB2, DZH6, DZH8, DZH9, DZF2, DZF3, DZ18, DZ19, DZ16, Far East Broadc. Co. Voice of Christian Brotherhood (DYSR), Ravemcco. – Puerto Rico: St. WIVV, Calvary Baptist Mission. – R. Honduras: La Voz Evangelica de Honduras HRVC, Conservative Baptist Home Mission Society. – Taiwan: The Voice of Righteousness, Cheng Sheng Broadc. Corp. – USA: KGEI, San Francisco.

CATHOLIC

Angola: R. Eclesia. – Australia: St. 2 SM. – *Bolivia:* R. Loyola. R. *Fides,* Colegio S. Calixto. – Brazil: R. Piranhas Ltda. R. Pajou de Educacao Popular Ltda. R. Planalto S/A. R. Educadora Palmares de Alagoas. R. Aparecida. Emissora Rio S. Francisco. R. Cultura de Sergipe. R. Difusora Dom Jesus de Cuiaba. Por um Mondu Melhor. Emissora de Educacao Rural. R. Aparecida Ltda. R. 9 de Julho Ltda. R. Braganca Ltda. R. Colmeia Ltda. R. Cambiju. R. Cultural. R. Difusora d. Paranaguá. R. Soc. Cruz de Malta Ltda. R. Itagiba. Soc. R. Difusora Urussanga Ltda. Soc. R. Tuba Ltda. R. Sarandiense de Sarandi. R. Aurora Ltda. R. Cacique Ltda. R. Cristal de Soledade. R. Sociadade de Sobradinho Ltda. R. Difusora Ltda. R. Difusora Veranense de Marau. R. Aratiba Ltda. R. Difusora Veranense Ltda. R. Difusora Garibaldi. R. Conquistadora and R. Porto Lucena. R. em Planejamento. Centro Radiofónico Franciscano. R. Capixaba. R. Difusora de Goiania. – Colombia: R. Sutatenza, Accion Cultural Popular. R. Reina. – Costa Rica: R. *Fides.* – Dominican Rep.: R. Diocesis de la Vega. – Ecuador: R. Catholica. R. Cultura Religiosa. R. Paz y Bien. La Voz del Campesimo. – Italy: Vatican R., Vatican City. – Katanga: R. College, College St. Francois de Sales. – Leopoldville: R. Leo, Societas Jesus. – Mozambique: R. Pax, Franciscan Fathers of Beira. – Philippines: Voice of the Catholic, University of Santo Tomas. – Portugal: R. Renascensa. –

RAI - RADIOTELEVISIONE ITALIANA



RAI-RADIOTELEVISIONE ITALIANA – School Sound and Television Broadcasting . Television Production Center – Rome.

EUROVISION'S PROGRESS

by G. Hansen
Director of the E. B. U.
Technical Centre

The progress of Eurovision in 1962 has been remarkable. The forecasts given in the 1962 yearbook have been fulfilled, and even exceeded. Let us give a few figures. The Television Services of the Members of the European Broadcasting Union in seventeen different countries are linked by Eurovision. The total length of the permanent television networks of these Services is approximately 70,000 km. The number of television broadcasting stations transmitting their programmes is more than 1,400 and the number of receivers served by all those transmitters on 1st January, 1962, was about 28 million. The number of transmissions controlled by the E.B.U. International Television Coordination Centre has anaverage of 31 per week. This figure includes the daily exchanges of news items, but not the straightforward relays between neighbouring countries,

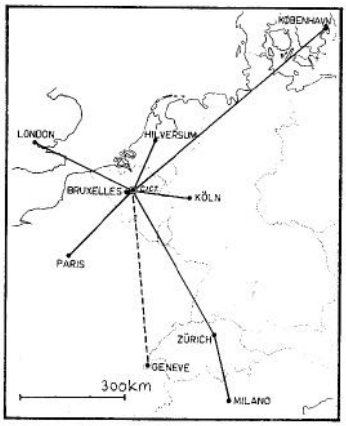
The daily news exchanges are a typical development of Eurovision. Since 1st January, 1962, they have been taking place between the Television Services of Belgium, France, Italy, the Netherlands, other services joining in occasionally. Every day before noon each Service informs the E.B.U. Administrative Office at Geneva of the news-items that it has to offer on that day. These offers are then passed on to all the Television Services that participate in the exchanges . By 14.00 CET, the Eurovision Planning Unit in the Technical Centre is informed of the desired participation in each item offered; it then places (by telex) the orders for any circuits, sound, vision and control that are not permanently available. At 16.30 the pre-transmission tests of the vision circuits begin and at 16.40 there is a telephone conference of the News Editors of the various Television Services concerned. Beginning at 17.00 each Service in turn describes the items that it will contribute, giving the duration of each sequence and the necessary background information. At approximately 17.15, the actual picture transmission takes place and may continue up to about 17.30. Each Service in turn sends its contribution which is simultaneously recorded by all the other Services.

After 17.30 each Service edits as required the items that it has recorded and provides locally a suitable commentary in the appropriate language; ready for its news bulletins of the same evening.

Such a scheme would not have been possible if a basic sound network had not been permanently available for the common use of the Members of the E.B.U. participating in Eurovision. Since 1st January, 1962, the most important sound and control circuits have been leased by the year (instead of being rented by the minute as before). Fig. 1 shows this basic network. It is available at all times to carry the sound complement of television programmes. In order to gain the fullest possible return for the rental, the links have also been made available for the exchange of sound broadcasting programmes; this facility has been used to a great extent by the E.B.U. Member's sound broadcasting services and will probably be used even more in the future. To enable the use of the permanent sound network at all times of the day, and also because of the greater number of television programmes exchanged in Eurovision, the International Technical Coordination Centre is now manned regularly every day between 09.00 and 23.30.

In 1962, exchanges of programmes between Eurovision and Intervision, that is between Western and Eastern Europe, have again increased. Morever, the launching of Telstar on 10th July has now made possible direct exchanges across the Atlantic. This is undoubtedly the greatest event as far as television programme exchanges are concerned. It was fittingly marked by organising a special exchange of programmes on 23rd July between the E.B.U. Members in Europe and the E.B.U. Associate Members in N. America (A.B.C., C.B.S., N.B.C., C.B.C.). The America-to-Europe programme was transmitted on the 124th pass of Telstar, whereas the Europe-to-America programme was transmitted on the 125th. The European programme included 21 contributions from 9 countries, lasting between 18 seconds and 2 minutes each. The E.B.U. provided the Master Control in Brüssels, with accommodation for the producer and programme director. A small studio was improvised in the C.I.C.T. maintenance workshop, whence the programme was presented by a narrator. Both programme were broadcast by the 1,400 transmitters in Europe mentioned above, and by 600 transmitters in the United States. 80 million television sets could receive them. Never before has a television programme reached such an audience.

Since then, many television programmes have been transmitted through Telstar. Special mention might be made of the Europe to America programme organised for the 10th anniversary of C.B.C.'s television Service on 6th September and the United Nations programme on 17th September, which utilised the same Telstar pass for transmission from Europe to America and America to Europe, with a switching time in between of two minutes. Telstar has been an outstanding success and all credit must be given to the A.T. & T., N.A.S.A., G.P.O. and French P.T.T. One should not forget however that it is an experimental undertaking.



Sketch-map showing the basic sound-network rented in 1962 by the E.B.U. Members participating in Eurovision. Each interconnection consists of a programme-sound circuit in each direction and a control-telephone circuit, except in the case of the Brussels-Geneva link, which is for telephone traffic only. Extensions to the basic network are rented by the minute for each transmission individually.

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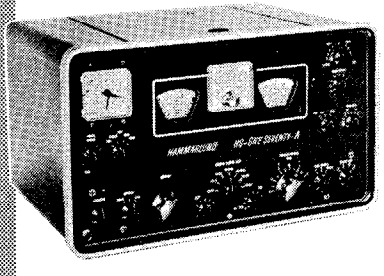

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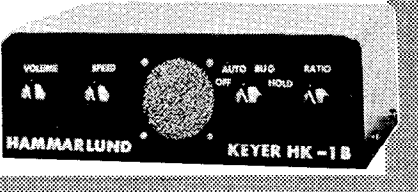

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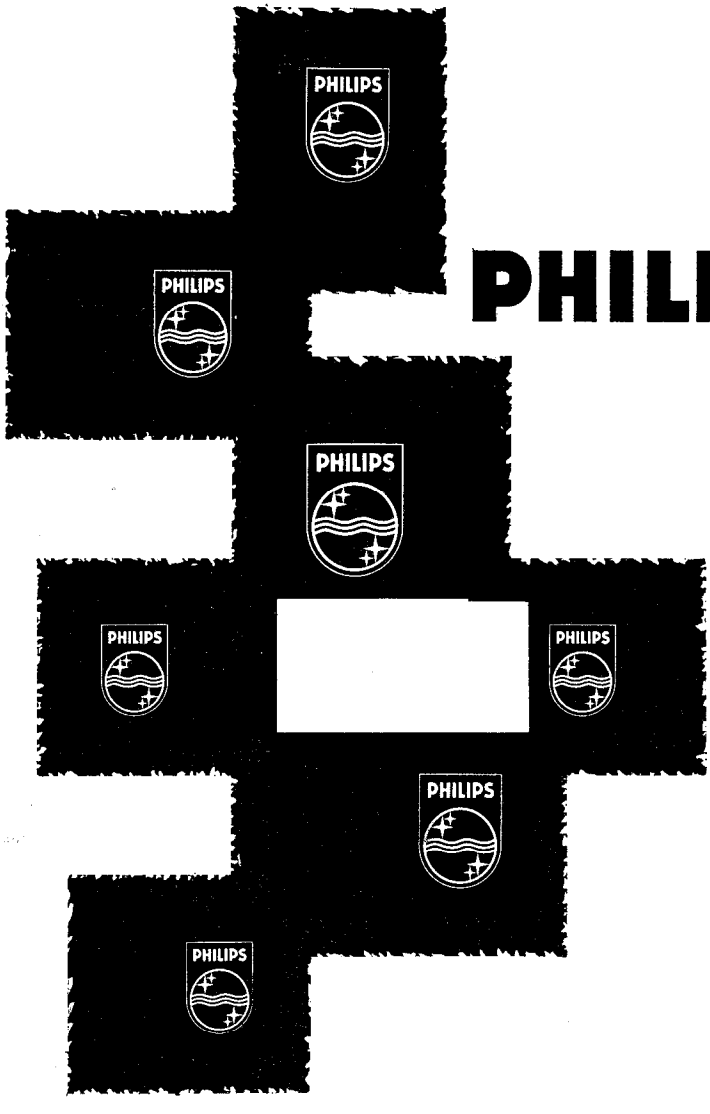

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All-transistor radio receivers (AM and AM/FM)
Stereophonic radio gramophones with reverberation
All-transistor car radios (AM and AM/FM)
Pocket and portable radios (AM and AM/FM)
Television receivers 19", 21", 23" for all transmission systems

STUDIO AND SOUND EQUIPMENT:

All types of microphones, loudspeakers, amplifiers, tape recorders for amateur, semi-professional and professional purposes
Audio and Video equipment for Broadcasting and TV studios and for outside broadcasts
Colour Television equipment for Studios and TV laboratories

MISCELLANEOUS:

Closed-circuit television equipment
Large-Screen TV equipment
Gramophone records
Record players and changers
Electrophones
High-Fidelity equipment
Stereo-reproduction equipment
Pick-up heads
Lighting equipment for studios and general purposes
Measuring equipment for radio and TV Service

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(Organizations and agencies throughout the world)

N.V. PHILIPS' TELECOMMUNICATIE INDUSTRIE - HILVERSUM - HOLLAND

INTER-CONTINENTAL TELEVISION PRESENT AND FUTURE

By Edgar T. Martin, Engineering Manager, VOA and George Jacobs, Chief, Frequency Division, VOA.

On July 23, 1962, an exciting new chapter was written into the history of international communications. On that day, the Old and the New Worlds were linked together by live television broadcasts for the first time.

This memorable event was made possible by the TELSTAR communication satellite. Launched by the United States of America on July 10, 1962, TELSTAR is an experimental active repeater satellite built by the American Telephone and Telegraph Company. TELSTAR receives microwave radio signals beamed to it from the ground, amplifies the signals *ten billion times,* and retransmits them on another frequency to specially designed receiving stations on the ground. In essence, the satellite functions as "a microwave tower in the sky", and from its great height (which varies between 1000 and 6000 kilometers) TELSTAR can relay signals over distances of many thousands of kilometers.

On July 23, during its 123rd orbit around the world, the first live television broadcast was relayed by TELSTAR from North America to Europe. During the twenty-two minutes that TELSTAR was high over the Atlantic Ocean in line-of-sight with both continents, an audience in eighteen European countries, estimated at 100 million, saw live pickups of President Kennedy's news conference, an American baseball game, U.N. headquarters in New York City, and glimpses of North America from Quebec to the Mexican border, and from the Atlantic to the Pacific.

The program, which originated in the United States and Canada, was transmitted by coaxial cable and conventional microwave systems to the American Telephone and Telegraph Company's earth terminal station near Andover, Maine, in the northeastern tip of the United States. From Andover, the program was beamed to the TELSTAR satellite by a horn reflector type antenna 161 feet in length, and 60 feet across at its mouth. The antenna is completely encased within a 210 feet diameter radome. TELSTAR amplified and relayed the broadcast to a similar earth terminal station located at Pleumeur-Bodou, in Brittany, France. From Brittany, the program was transmitted by conventional microwave and coaxial cable circuits to Eurovision headquarters in Brussels, where it was distributed over Eurovision networks to eighteen European countries. The technical quality of the picture was excellent.

During TELSTAR's next orbit, 2 hours and 40 minutes later, Europe transmitted a 19-minute live broadcast to North America. More than 100 million television viewers in the United States and Canada became arm-chair tourists as Eurovision cameras switched from the Arctic Circle in northern Sweden to Sicily in the Mediterranean, and from Belgrade, Yugoslavia, to the western tip of England. Viewers saw the midnight sun low in the northern sky, rode along the Champs-Elysees in Paris, heard opera from the Baths of Caracalla in Rome, saw dancing horses at Vienna's Spanish Riding School, and heard the roar of blast furnaces on the Rhine. The program coordinated through Eurovision headquarters in Brussels, was transmitted by conventional coaxial cable and microwave systems to an earth terminal station at Goonhilly Downs, in Cornwall, England. (Incidently, this station is located within a few miles of the spot from which Marconi first bridged the Atlantic with radio in 1901.) An 85-foot diameter parabolic antenna at Goonhilly Downs beamed the Eurovision broadcast to TELSTAR, which amplified and relayed it to Andover, Maine. At Andover, the program was distributed through conventional ground circuits to the American and Canadian television networks. The quality of reception was excellent.

The outstanding success of the TELSTAR trans-Atlantic television broadcasts, and the significance they hold for the future, warrant enthusiasm. Important as it is, however, TELSTAR is only an experiment, and in itself does not represent the design of an operational communications system. Facilities for regularly relaying

(Left) Edgar T. Martin, Engineering Manager, Voice of America. (Right) George Jacobs, Chief, Frequency Division, Voice of America.

GEORGE JACOBS

George Jacobs was born on July 16, 1924, in New York City. He received his B. E. E. degree from Pratt Institute, Brooklyn, 1949, and his M. S. E. E degree from the University of Maryland in 1960.

Mr. Jacobs is a representative of the Interdepartment Radio Advisory Committee (IRAC) and several other policy-level U. S. Government committees in the field of telecommunications. He has served as a delegate to several international broadcasting and telecommunication conferences, including the 1959 ITU Administrative Radio Conference, where he was the U. S. spokesman for high frequency broadcasting. Most recently, he attended the Study Group IV meetings (Space Communications) of the C. C. I. R. held in Washington during March, 1962.

Mr. Jacobs is a Senior Member of the IRE, a member of URSI, and a registered Professional Engineer in the District of Columbia.

EDGAR T. MARTIN

Edgar T. Martin was born on May 1, 1918, in Princeton, West Virginia. He received his B. S. E. E. in 1938 and his M. S. E. E. in 1953, both from Virginia Polytechnic Institute. He also holds an M. A. in Government from American University, conferred in 1957 and an LL.B. from George Washington University. In 1959, he earned his LL.M. from Georgetown University.

He is a registered Professional Engineer in Virginia and the District of Columbia, and he is also a member of the Virginia Bar. He has attended more than a dozen major international conferences dealing with broadcasting and telecommunications, and was a delegate to the ITU's Administrative Radio Conference held in Geneva.

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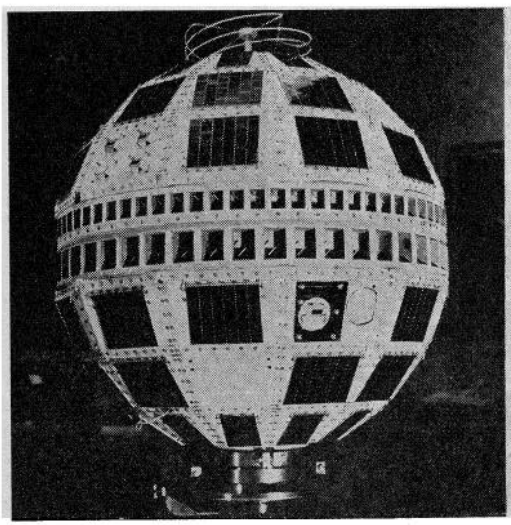

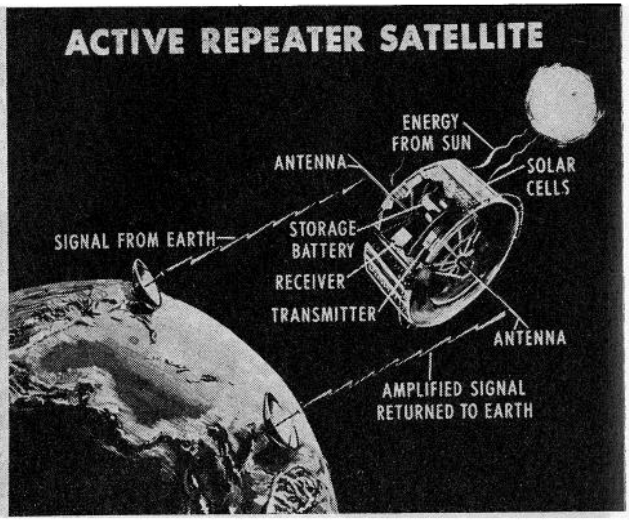

Left: A close-up of TELSTAR experimental communication satellite which serves as a microwave relay in space. TELSTAR made it possible to exchange live television broadcasts between North America and Europe for the first time, during 1962. The satellite is covered by 3600 solar cells which obtain energy from the sun for power. Girdling the center of the satellite are two broadband microwave antennas, one of which is used for receiving and the other for transmitting.

Right: How active repeater satellites, like the American TELSTAR and RELAY, relay television broadcasts between continents.

television broadcasts by communication satellites may still be several years off.

To hasten the development of an optimum operational satellite communication system, the United States plans a variety of experiments during 1963. As many as six low- or intermediatealtitude satellites of the TELSTAR and RELAY active repeater types are expected to be placed in orbit during the year. It would require approximately 40 of these satellites, orbiting between 1000 and 15,000 kilometers (600 and 9,000 miles) to provide continuous communication on a world-wide basis. At least two high-altitude, synchronous, active repeater satellites are also expected to be placed in orbit during 1963. Called SYNCOM, these satellites would orbit at 36,000 kilometers (22,300 miles), from where a fixed relationship would be maintained continuously with any point within a visible area equal to one-third of the earth's surface. The United States plans to launch its second ECHO passive communication satellite towards the end of 1962. ECHO II, a rigidized 135-foot diameter balloon, will act as a giant man-made reflector of radio signals in the UHF and microwave regions. This will be followed by additional launchings of passive communication satellites during 1963. It is planned to eventually design an optimum operational system from the detailed technical data obtained from these experiments. The initial phase of such a system may be in operation as early as 1965.

The success of TELSTAR raises the possibility of broadcasting directly to a listener's home from a satellite relay transmitter. In such a case, the transmitter in the satellite must be of sufficient power to radiate a signal strong enough to be received on the average home televison receiving installation. Calculations show that it would require a satellite in a synchronous orbit, with a transmitter of several hundred kilowatts, to provide direct television transmissions. Many formidable technical problems remain to be solved before this can be achieved, and it appears doubtful if broadcasting directly from satellites can be achieved as economically as present day conventional broadcasting systems.

The pattern of inter-continental television during 1963 seems clear. The bulk of exchanges will continue to be on film and video tape, often flown to far-off destinations in a matter of hours by speedy jet aircraft. A number of trans-Atlantic experimental television relays may take place during the year as a result of the large number and variety of communication satellites that are to be tested. Both Germany and Italy are expected to participate directly in these experiments as earth terminal stations are planned to be put into operation in both countries during 1963. Inter-continental television on an experimental basis may be extended to South America and the Far East during the year, upon the completion of earth terminal stations under construction in Brazil and Japan.

When an operational satellite communication system is eventually established, the amount of inter-continental television material relayed will no doubt depend on the cost of the relay as compared to the exchange of film and video tape. It is not expected that direct broadcasts from satellites to the listener's home will be technically possible or economically justifiable in the foreseeable future.

President Kennedy recently said, "The benefits which a communications satellite system should make possible within a few years, will stem largely from a vastly increased capacity to exchange information cheaply and reliably with all parts of the world by telephone, telegraph, radio and television. The ultimate result will be to encourage and facilitate world trade, education, entertainment, and many kinds of professional, political and personal discourse which are essential to healthy human relationships and international understanding."

The communication satellite experiments planned for 1963 are expected to be a big step toward the realization of these benefits.

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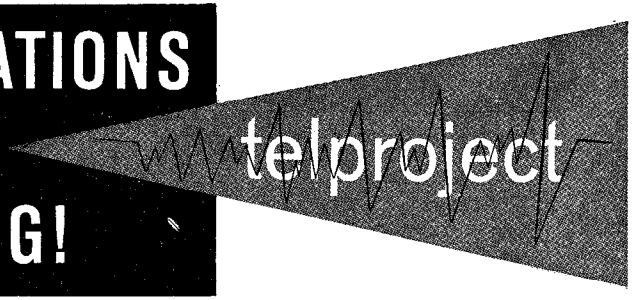

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HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio Television Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver.

The first section of the Handbook contains instructive articles relating to broadcasting, information regarding broadcasting and television organizations, and tables of practical value to listeners.

The main section of the book (pages 70–204) contains detailed information, by country, of the **Radio Broadcasting Stations** and broadcasting organizations of every country in the world, including names and addresses of broadcasting companies, names and titles of leading officials, lists of broadcasting stations in each country, including frequencies, wavelengths, transmitter power, call signs (if used), and station names. Program information is also listed, including times, frequencies, and beam areas of the broadcasts in each language.

Information about **Television Stations** is provided in the section following the radio section, including names and addresses of Television companies, location, power and channel of Television stations, and program schedules of these stations.

A listing by frequency and wavelength of the shortwave stations of the world, and long and medium wave stations of Europe-North Africa-Near East is presented in the back of the Handbook, for use in facilitating the identification of stations.

Short-wave stations may be used either for domestic broadcasting to listeners in the same country or for international broadcasting directed to listeners in other countries.

International Short-wave stations usually employ directional antennas to beam their programs to particular areas on frequencies calculated for best reception. Most international broadcasts are scheduled for the evening hours in the intended reception area, but some are in the morning or at other times during the day. The reception areas give their names to the services: European Service, Far Eastern Service, North American Service, etc. Languages employed are those of the listeners in the area to which the broadcast is directed, also the language of the transmitting country for reception by persons understanding that language.

Best reception is usually obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas, and sometimes, even of programs directed to distant parts of the world. Short-wave propagation conditions change continually because of the influence of daylight and darkness, seasonal effects and solar activity. Consequently, good reception requires frequency change from time to time.

Domestic Short-wave stations are usually of lower power than international stations, and generally use non-directional or wide beam antennas, in order to reach local or national audiences. These stations make fewer seasonal frequency changes, and many operate on the same channel for both day and night operation. The stations are utilized to reach areas of a country where coverage by medium and long wave stations is not adequate.

Long and Medium wave stations are used mainly for transmitting programs to listeners in the country in which the stations are located. These stations vary from powerful transmitters capable of being heard throughout the country to low power stations intended only for a small area in the vicinity of the transmitter.

FM (Frequency Modulation) Stations operate on very high frequencies (VHF) ranges of 88–108 Mc in the Americas and 87–100 Mc in other areas, and provide interference-free reception over a short radius. Most FM stations relay of programs of a medium or long wave station.

Frequency and Wavelength – Frequencies are measured in kilocycles per second (kc) and megacycles per second (Mc). A kilocycle is 1000 cycles. A megacycle is 1000 kilocycles. Wavelengths are measured in meters.

Program times used in the listings are based on the 24 hour clock. Midnight is 00.00 hours, 3 a.m. is 03.00 hrs, 9 a.m. is 09.00 hours, and midday is 12.00 hours. Then, instead of starting another 12 hour cycle (p.m.), under the 24 hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hrs, 10 p.m. is 22.00 hrs, and so on until 23.59 (11.59 p.m.) is reached and a new 24-hour cycle starts. This system eliminates any confusion between times a.m. and p.m.

Time Conversion: All programs are listed in GMT (Greenwich Mean Time). To convert from GMT to your local time, refer to the World Time Table on page 55 to determine how many hours your time is ahead or behind GMT, and add or subtract that amount in order to convert to your clock time. For quick conversion, it is useful to write the GMT hours, 00 to 24, down one side of a sheet of paper, and then enter the correct local time opposite each GMT hour. Summer time or Daylight Saving time adds an hour to local time, so this should be taken into account in countries where it is utilized.

Program schedules: The program schedules of each country are divided into Home Services and Foreign Services. The Home Service programs are arranged by language, and by program services or networks. The Foreign Service transmissions are generally arranged by beam area, and by language for each beam area. The times and frequencies of the programs in each language are listed together, in order to facilitate the determination of the times and frequencies of the broadcasts in each language. The times of news broadcasts and other program features are also included.

Therefore, if you wish to hear a broadcast in a particular language from a country, refer to the listing for that country of the time and frequency of broadcasts in that language. Most broadcasts are transmitted on more than one frequency, so try the various frequencies listed, to determine which one is received best at your location.

Identification of Stations: Most stations in Europe, Middle East Africa and Asia identify by announcing their station name and location. Most stations in North America and Oceania identify by the use of a call sign of three to five letters or a combination of letters and figures,

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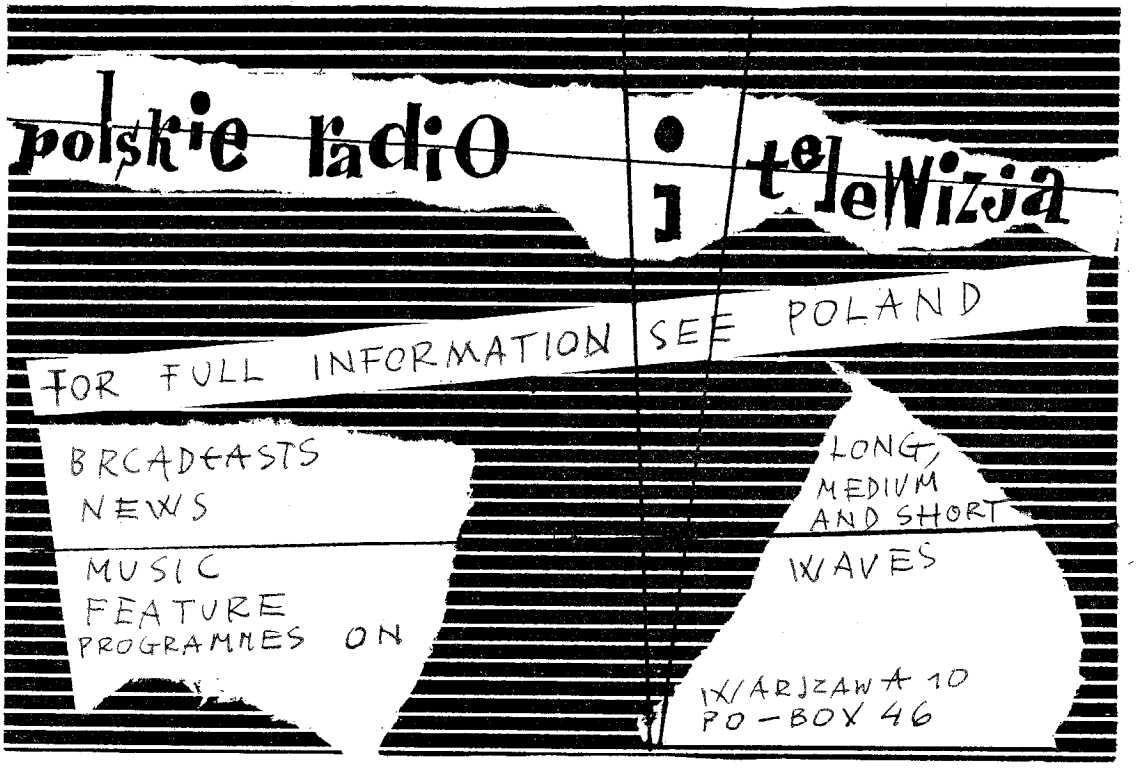
FOR DETAILS WRITE TO:

RADIO PRAGUE – PRAGUE 2 – CZECHOSLOVAKIA

See editoral text page 72



of which the first, or first two, denote the nationality in accordance with the international list of prefixes. Most stations in Latin America use a call sign (sometimes not frequently announced), a station name, and location.

In addition, many stations use musical interval signals at sign on and between programs, in order to help listeners to find the station on their dial and identify it as the desired station. These interval signals are included in the country listings.

How to Identify a Station by Frequency or Wavelength: When you hear a station that is unknown to you, first try to determine some clue to its identity by attempting to determine the language, noting the type of program, etc. Then, note the approximate frequency or wavelength indicated on your dial, and turn to the table "Short-wave Stations of the World" in the back of the Handbook, and ascertain what stations operate in that vicinity. Next, check the program listings to determine which of the stations are scheduled to operate at that time of day, and which are most likely to be audible at your location, depending on the power and distance away. For definite confirmation, it is desirable to wait for station announcement or interval signal.

Frequency Changes: The frequencies listed are those which were scheduled for use at the time of publication. However, due to a number of reasons, including interference and changes in propagation conditions, it may be necessary for a country to make frequency changes. Often only one of the frequencies on a program will be changed, so the new frequency can be determined by tuning in the other frequencies and listening for the announcement of the frequencies being used. Reference to a publication listing the latest frequency changes, such as the World Radio Handbook Bulletin (issued fortnightly) or a monthly short-wave listeners publication issued in your country, is also helpful.

Interference: Due to the present crowded condition of the medium and short wave broadcasting bands, interference may be encountered from other stations operating on the same or closely adjacent frequency. In addition to interference from other broadcast stations, there may also be interference from "jammers", which transmit a variety of noises in an attempt to prevent certain foreign broadcasts from being heard in the country operating the jammers. When interference is encountered, try another of the listed or announced frequencies, if several are in use, or try a broadcast at another time.

Reception from Hard-to-Hear Countries: If you wish to hear a station or program from a particular country, refer to the listing from that country, determining first whether it has any broadcasts beamed toward your area or adjacent areas, if not, refer to the frequency, time and power listing to determine where and when reception might be possible. Also, note the bands and times when stations in other countries in that part of the world are audible. It is possible to hear many far distant stations, even if they do not beam programs to your area, by listening when the propagation and clearness of channel conditions are favorable.

Verification by QSL-cards: As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL card (verification) or letter. Most **international** broadcasting stations do not require enclosure of return postage and will reply with a QSL card or letter. **Domestic** broadcasting stations do not normally request reports from foreign listeners, so return postage should be sent with reports to these stations. Return postage should be sent in the form of an International Reply Coupon, obtainable at post offices in most countries. Reports should be sent to the station address given in the country listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

Reception reports are useful to radio engineers in selecting the most suitable frequencies for broadcasts beamed to your area. Reports are preferred in the SINPO code, which is as follows:

S (Signal Strength)	I (Interference)	N (Noise)	P (Propagation Disturb.	O (Overall Merit)
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable

Example: SINPO 55445 means excellent strength, no interference, slight atmospheric noise, slight propagation disturbance, excellent overall merit.

The publication "How to listen to the world" includes information about how to write a report to the stations, in the different languages. See page 04.

In June 1963 we shall issue a summer-supplement to the 1963 edition of the WRTH that will bring the information in your WRTH 63 right up to the minute, including all the summer schedules of the major short-wave stations and a complete up-to date table of short-wave stations

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Australia 230/240
Austria 110/220
Azores 110/220
*Bahamas 120
Bahrain 230/400
Barbados 110/220
Belgium 110/130/220
*Bermuda 110/220
Bolivia 110/220
Borneo No 230
Brazil: Brasilia* 220/380
Rio 120
São Paulo* 120
Recife 220
Bulgaria 110/220
Burma 220
Burundi 220
Cambodia 220
*Canada 110/220
Canary I. 115/190
C. African Rep. 220
Ceylon 220/230
Chile 220/380
*Colombia 150/260
Congo (Franco (African Comm.) 220
Congo, Rep. 220
Costa Rica 110
*Cuba 110/220/440
Cyprus 240
Czechosl. 110/220/380
Dahomey 230/400
Denmark 220
*Dominican 110/220/440
*Ecuador 110
Egypt 110/220
*El Salvador 110/220
England 210/250
Ethiopia 220
Falkland 230/400
Faroe I. 220
Fiji 240/415
Finland 110/127/220/230
France variable
Germany F. R. 220
Germany D. R. 220
Ghana 230/400
Gibraltar 240
Greece 220
Greenland 220/390
*Guatemala 110/220
Guiana Br. 110/220/230/400
Guiana, Fr. 110
*Haiti 110/120
*Hawaii 120/208/240/480
Holland 220/380
*Honduras, Br. 110/220
*Honduras, Rep. 115/220
Hong Kong 200/346
Hungary 110/120
Iceland 220
India 220
Indonesia 125/220
Iran 220
Iraq 220
Ireland 220
Israel 220/380
Italy variable
Ivory Coast 230
Jamaica 110/220 40/50 c/s
Japan 100/200
Jordan 220
Kenya 220/440
*Korea, Rep. 110/220
Lebanon 110/190/220/380
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Libya 125/130/220
**Luxemb. 110/220
Macau 110
Malaya 230
Malgache, Rep. 110/220
Mali 115/200
Malta 240
Martinique 110/220
Mauritius 230
*Mexico 110/125/220
Monaco 110/115 42 c/s
Morocco 110/220
Mozambique 220
Neth. Ant. 125
N. Zealand 220/240
*Nicaragua 110/220
Niger 220/400
Nigeria 220
Norway 230
Pakistan 220
*Panama 110/220
Paraguay 220
*Peru 220
*Philipp. 110/220
Poland 220
Portugal 220
*Puerto Rico 110
Rhodesia 220/380/230/400
Rumania 120/208
Ryukyu Isl. 110
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Senegal 127/220
Sierra Leone 230
Singapore 230
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Sudan 115/200
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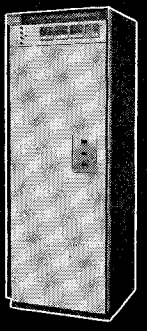

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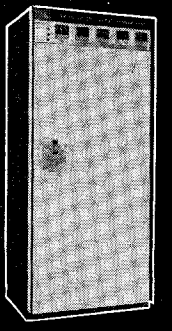

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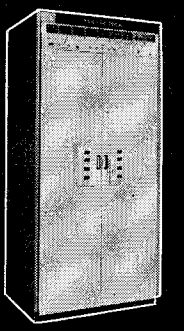

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SOLAR ACTIVITY IN 1963

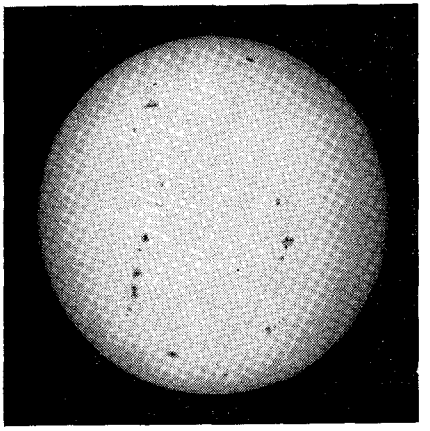
by Prof. Dr. M. Waldmeier

Since 1957, when the sunspot-activity reached its maximum, it has been steadily decreasing. The sunspot-number, which amounted to 190 in 1957, dropped to 185 in 1958, to 159 in 1959, to 112 in 1960, and to 54 in 1961. From 1960 to 1961 a particularly strong decrease of the spot-activity was recorded and – though slowed down – it continued in 1962 and will last also during 1963. For 1962 we predicted a drop from 46 at the beginning of the year to 28 at the end. Actually the smoothed sunspot-number came to 47 at the beginning of 1962, whereas that for the end of the year cannot be determined until the middle of 1963.

Occasionally still larger spots may occur, but on the whole the solar activity will be low and on many days the sun will be without spots at all. The smoothed sunspot-numbers probably will decrease from about 28 at the beginning to about 15 at the end of the year. Yet, the minimum of solar activity seems to be reached in 1964/65 only.

Conditions of short wave transmissions will be similar to those observed in the years 1931, 1942/43 and 1952/53 and will be only slightly different from sunspot-minimum-conditions (1933, 1944, 1954). This means that the ionizing radiation from the sun as well as the ionization in the ionosphere will be weak. Therefore critical frequencies will be low and relatively long waves have to be used.

As in the past years the Swiss Shortwave Service emits regularly the daily relative-numbers for the expired month as well as predictions for the coming six months. The present emission-time-table is as follows below.



Photograph of the sun taken during last sunspot-maximum

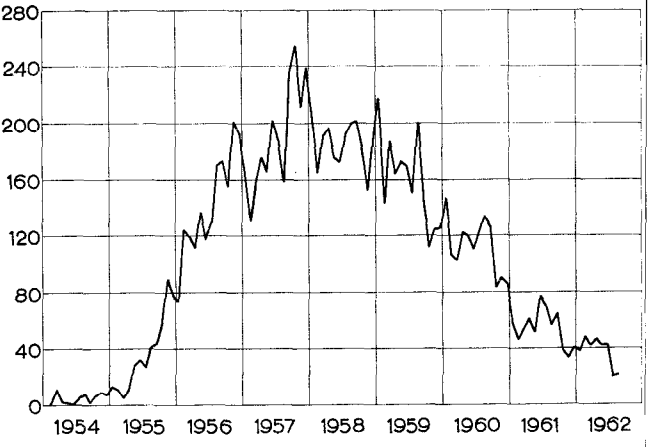


Diagram of the sunspot-relative-numbers 1954-1962

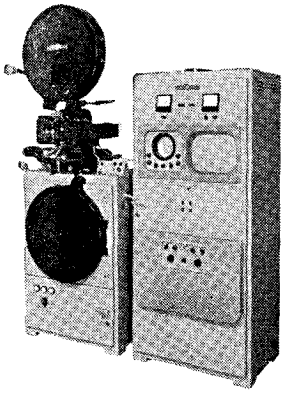
Emission-table of the Sunspot-Relative-Numbers by the Swiss Broadcasting Corporation: Valid till May 5th, 1963

Destination of Emission	Time of Emission*)		Wavelengths		
IN ENGLISH:					
England and Ireland	19.30	U.T.	49.55 m	31.04 m	
North America	9.15 p.m. 11.55 p.m.	E.S.T. E.S.T.	48.66 m	31.46 m	25.28 m
Australia, New Zealand, Far East	09.45	U.T.	25.28 m	19.59 m	16.86 m
South-East Asia, Japan	13.30	U.T.	31.04 m	19.59 m	16.86 m
India, Pakistan, South Africa	15.30	U.T.	25.28 m	19.60 m	16.86 m
Near East	17.30	U.T.	31.04 m	25.28 m	
IN SPANISH:					
Spain	22.30	U.T.	49.55 m	31.04 m	
South America	00.45 04.10	U.T.**) U.T.**)	48.66 m	31.46 m	25.28 m

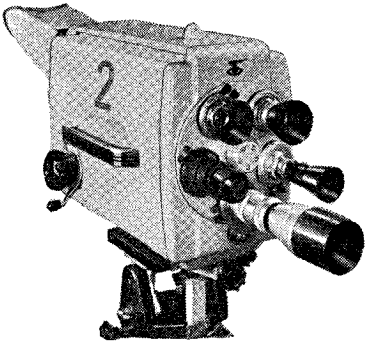
*) DATES OF EMISSION: Saturday, December 8th, 1962
– January 5th, 1963
– February 2nd, 1963
– March 2nd, 1963
– April 6th, 1963
– May 4th, 1963

**) FOR SOUTH AMERICA: night from Saturday to Sunday

TV STUDIO EQUIPMENT



Flying spot film scanner



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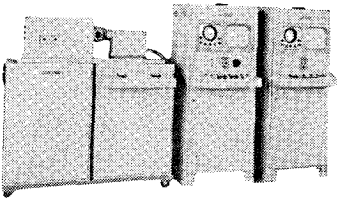
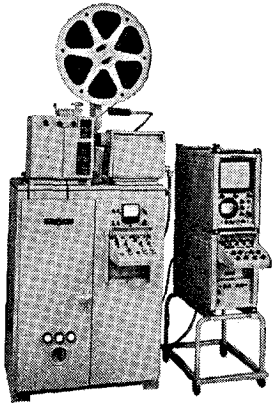


Standards Converter



Vidikon film scanner

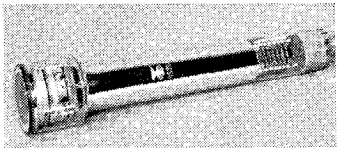
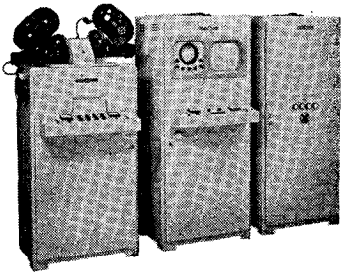


Image-Orthicon-Camera-Tubes with field mesh and suppressor



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Brussels	Hobart	New Delhi	Stuttgart
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5 Egels
6 Claudine Georgin
7 Jackie Marshall
8 Dorothy Logan
9 Newsreader P. Reynolds
10 Roger Collinge
11 Guus Tholle
12 Fons Jansen
13 Head Spanish section F. E. de Mulder Bonello
14 Harry v. Gelder
15 Programsecr. E. Thokle
16 Programsecr. A. Aasgaard
18 Roland Pålsson

The Swiss Shortwave Service: The Lady Announcers of the English Service: From left Ruth, Pamela, Gwen, Barbara and Sylvia.

1 R. Australia: Overseas Sce.

2 R. Australia: News ann.

3 R. Australia: Overseas Sce.

4 Belgium: English ann.

5 Belgium: Neerlandaise ann.

6 Belgium French ann

7 Belgium: English ann.

8 BBC: Overseas Sce.

9 BBC: Overseas Sce.

10 BBC: Overseas Sce.

11 R. Nederland: Dutch ann.

12 R. Nederland: Dutch ann.

13 R. Nederland: Spanish ann.

14 R. Nederland: English ann.

15 R. Norway: Short Wave Service

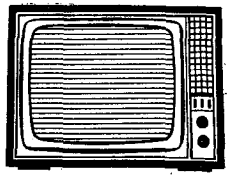
16 R. Norway: Short Wave Service

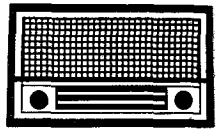
17 Saudi Arabia: News ann.

18 Sweden: Short Wave Service

Radio Japans Announcers. Languages in Charge (Left to Right): Korean, French, English, Russian, Hindi and Chinese.

FORTY YEARS





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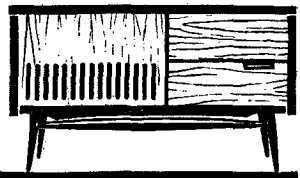

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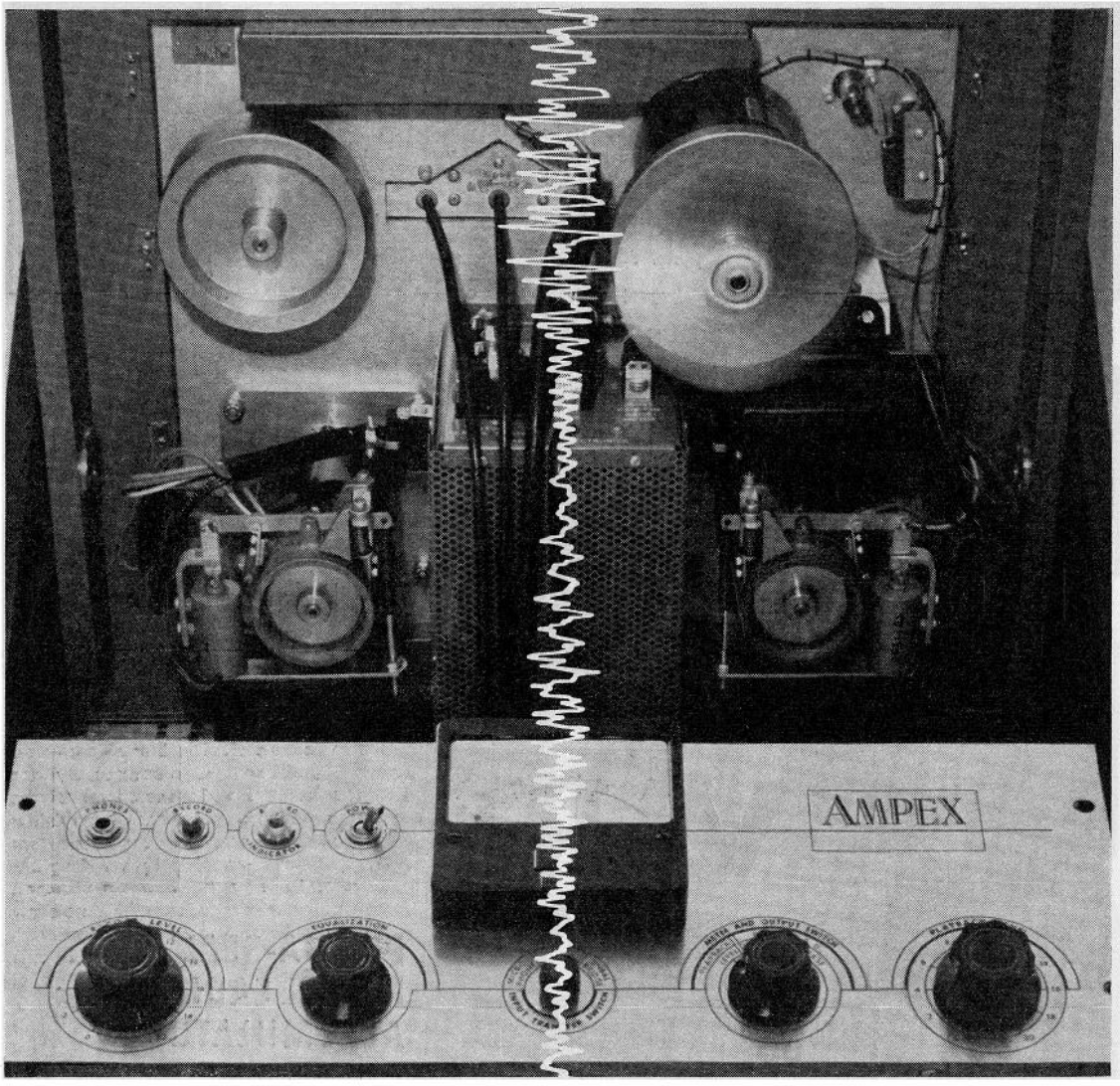
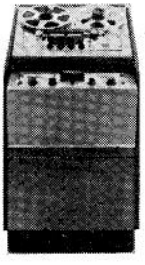
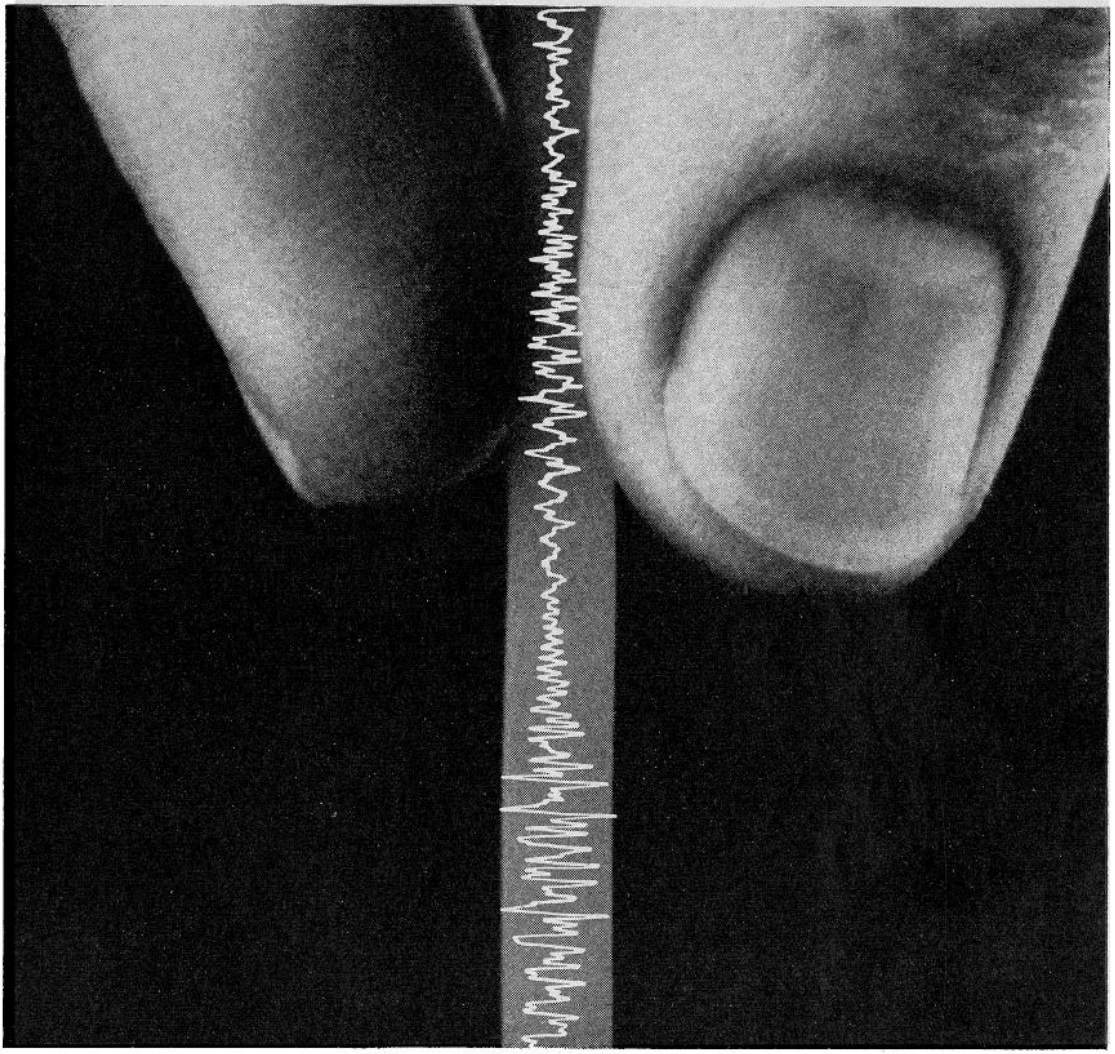


What professional recorders have the world's most reliable tape transports? AMPEX 350 Line

Take a close look at the underside of the Ampex 350 tape transport above. Notice its engineering simplicity. Only five rotating parts. Fewer parts : fewer adjustments. This simplified design ensures thousands of operating hours with minimum maintenance. Do you want proof ? Visit any one of the 5000 broadcast and recording studio installations that now rely on this transport. It is found on all Ampex 350 Line audio recorders — available in over 125 models to fit every world-wide recording need. There is the Universal 351 series of recorder-reproducers with switchable NAB/CCIR equalization. The Universal 352 series for monaural or stereo playback only. And there is the 354 series of stereo recorder-reproducers with two channels of electronics in one convenient package. All models have been designed for maximum dependability, ease of operation and maintenance. All give you the high-quality professional performance you would expect from the only company able to provide recorders and tape for every application : Ampex International S. A., Pérolles 2, Fribourg, Switzerland. Sales offices and franchised dealers throughout the world.



AMPEX



What professional recording tape now offers a new standard of performance? AMPEX 600.

Ampex engineers are never content with present standards. They are always trying to improve what sometimes seems un-improvable. Now they have been at work on the Ampex 600 Series Professional Recording Tape. And they've improved it so much we felt we should call it the new Ampex 600. This 600 Series now offers better high frequency response characteristics. And because an exclusive Ferro-Sheen process makes the tape smooth, the first play and the one-hundredth have the same response characteristics curve. It gives you the kind of reliable performance you expect from Ampex recording equipment. Try this improved 600 Series and see. It's made in the same rigidly controlled clean-room atmosphere as precision computer and instrumentation tapes. It's from the only company providing tape and recorders for every application : Ampex International S. A., 1, rue des Pilettes, Fribourg, Switzerland. Sales and service engineers throughout the world.

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LISTENING ON SHORTWAVES

Tuning – Interference – Choosing a shortwave receiver

The world is going through a phase of rapid technical development in the field of telecommunication. In most countries television and F.M. radio have become popular and efficient means of bringing the wonders of sight and sound into the home. Shortwave radio, however, is still unrivalled when it comes to broadcasting over very long distances, and though it demands more trouble and patience of the listener, its possibilities give rich rewards. The whole world is available to you if you know how to get the best reception.

We assume, of course, that your radio set has a shortwave band. As with every article of use a radio set needs regular care. We are apt to neglect our sets because they go on functioning, but for shortwave reception it is essential to have the set tested and trimmed once in three years. Trimming increases the sensitivity of the set, especially on the shortwave bands.

An aerial is another "must" for listening on shortwave. An outside aerial gives the best results, but otherwise (even if you have a built-in aerial) stick a piece of wire, about fifteen feet long, in the aerial connection at the back of your set, and connect the other end with, say, your (metal) curtain rod. If you live in a home built of reinforced concrete an outside aerial is indispensable. You can, however, make shift with a rod-aerial, which can be screwed to the window-frame outside.

Reception from broadcasting stations overseas cannot be as stable and reliable as that of a local broadcasting service. Because of the considerable distances involved, a service for listeners in countries other than the one from which the transmissions originate cannot employ the same methods as are used for a domestic service.

Signals carrying Home broadcasting programmes are normally radiated around the immediate area by ground wave on VHF, medium waves or long waves, whilst signals carrying overseas programmes are mostly transmitted to the distant audiences on short waves by way of the ionosphere.

The ionosphere consists of layers of ionised air varying in height from around 70 to 500 km. above the earth's surface. The signals are projected into the ionosphere which reflects them back to earth again. Such signals must be of suitable wavelength and correctly beamed into the appropriate refracting zone of the ionosphere to enable them to return to earth in the selected listening area.

The condition of the ionosphere, that is to say the effective height and intensity of the various layers, depends mainly upon radiations from the sun; therefore, ionospheric changes take place according to the time of day, to the season of the year and to the cycle of solar activity. It is possible to predict these variations to some extent (see page 32) although to forecast ionospheric disturbances, which can be sudden and severe, is much more difficult.

The principal causes of variable reception are changing propagation conditions. Irregularities in the ionosphere often mean that only weak signals can reach the service area. Every effort is made to overcome this by using the most suitable frequencies and by projecting the signals so as to use the best modes of propagation. The choice is based on theoretical prediction and practical knowledge resulting from long experience. However, the journey along the path from the transmitter to your receiver is a perilous one, and when signals are weakened by unfavourable conditions they become more vulnerable to interference of all kinds.

Tuning in on shortwave requires a little practice. Most shortwave stations operate on the following wavebands: 49, 31, 25, 19, 16, 13, and 11 metres. The corresponding frequency-bands are 6, 9, 12, 15, 18, 21, and 25 megacycles per second.

First make sure your set is switched on correctly to S.W. (shortwave). The dial gives either the wave-bands or the frequency-bands (sometimes both). Turn the knob until the indicator is on the required wave-band. You will then have to move the indicator about a little to the left or right. There are more broadcasting stations operating on the same wave-band, so it is a matter of trying until you can identify the s.w. station. If the frequencies are given on your set it makes it easier to find it. Once you have found the station it will be as well to mark the spot on the dial, so that you will not have difficulty in finding it again. It is important to remember that it takes about fifteen minutes for a radio set to get properly warmed up, unless it happens to be an all-transistor set. It is even more important to remember the old maxim: if at first you don't succeed, *try, try, try again!*

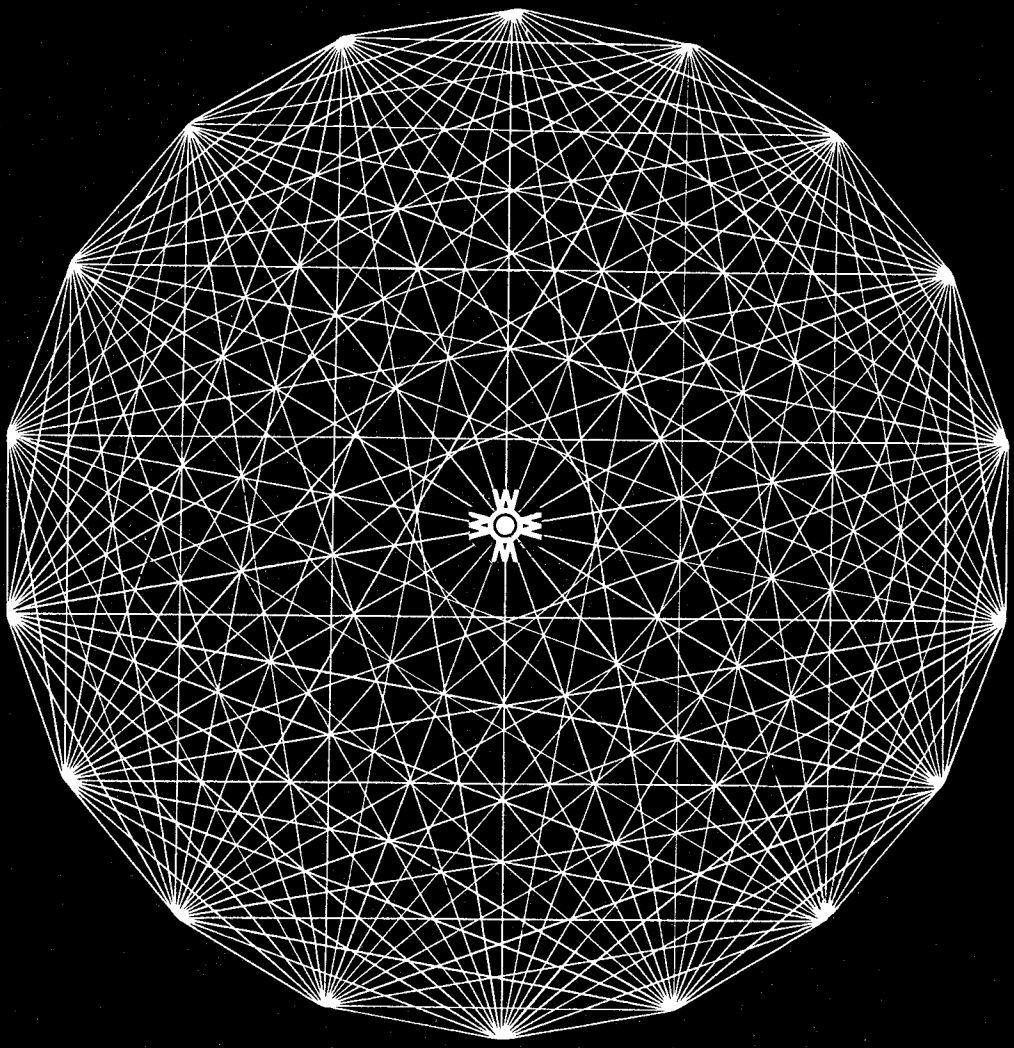
Interferences

Adjacent and Co-channel Interference.

This kind of interference is one reason why listeners may, at times, find that better reception can be obtained on a frequency other than the one advertised for their particular area. Although considerable liaison is carried out on an international basis to avoid interference from the signals of one broadcasting organisation to those of another, the demand for channels in the short wavebands in most use at any given time is much greater than the number available. It often occurs that when a new Frequency Schedule is introduced, signals radiated by other broadcasting organisations appear on the newly introduced frequencies, causing severe interference. In many cases this is quite unintentional and the frequency of one or other of the broadcasting organisations have to be changed again in order to avoid mutual interference. Furthermore, a substantial proportion of signals are subject to deliberate jamming nowadays, particularly at certain peak broadcasting times, and this jamming has the effect of not only degrading over wide areas the signals for which it is intended, but also of affecting signals in the neighbourhood of the jammed wavelengths. Thus there are times when it is difficult to find channels in the appropriate wavebands which are completely free of interference.

Second Channel Interference.

Most broadcast receivers incorporate a "superheterodyne" circuit arrangement. This implies the use of a "local" oscillator in the receiver which tunes in step with the frequency (or wavelength) received as indicated by the pointer on the tuning dial; this "local" (i.e. internal) oscillator is designed to generate a waveform of similar



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strength to the one which is being received, but separated from it by a frequency which remains practically constant. The original signal frequency is mixed with the "local" oscillator frequency and the difference (known as the "Intermediate Frequency") is selected for further amplification.

This Intermediate Frequency (usually of the order of 465 kc/s in broadcast receivers) is fed to one or more fixed-tuned I.F. amplifying stages with the object of improving both the sensitivity and the selectivity of the receiver.

The outstanding advantage of the superheterodyne principle is that selectivity and amplification can be achieved more efficiently and economically at the Intermediate Frequency than at the signal frequencies in the broadcast bands.

There are, however, always two frequencies which, when mixed with a given internal oscillator frequency, will produce the Intermediate Frequency. For example, in a receiver with an I.F. of 465 kc/s, the oscillator may be designed to generate 9535 kc/s when a signal of 10 Mc/s is being received:

1st Signal Frequency	10.000 kc/s
Oscillator Frequency	9.535 kc/s
Intermediate Frequency	465 kc/s

But this Intermediate Frequency will also be produced by a signal of 9070 kc/s:

Oscillator Frequency	9.535 kc/s
2nd Signal Frequency	9.070 kc/s
Intermediate Frequency	465 kc/s

Thus, in the above example, two signals (10.000 kc/s and 9.070 kc/s) may both be receivable at a single setting of the tuning dial. One will be the "wanted" signal whilst the other will be what is called the "second channel"; it is this "second channel" which often produces interference on what would otherwise be a clear signal.

One or more tuned radio-frequency amplifying stages in a superheterodyne receiver can provide sufficient R.F. selectivity to ensure that the strength of the "second channel" is reduced below audibility.

Local Interference.

There may be sources of electrical interference in the neighbourhood which can spoil and even obliterate all radio signals throughout or over a considerable part of the tuning range of a broadcast receiver. This kind of interference is often known as "man-made noise", as distinct from that caused by natural phenomena, and can result from electric trains, trams, workshop machinery, fans, hair-dryers, refrigerators, motor-car ignition systems and almost any kind of electrically operated industrial and domestic equipment.

The ideal method of eliminating locally generated interference is to fit suppressors at the source. This often presents difficulties because it is first necessary to locate all the offending electrical equipment; however, there are authorities in most European countries delegated to investigate radio and television interference and who possess the necessary apparatus to trace the causes.

It is usually found that the signal strength required to overcome the general level of "man-made noise" in populous industrial districts is much greater than in the suburbs but, irrespective of local conditions, it is always advisable to use a properly designed outside aerial. Local "man-made noise" can usually be reduced by arranging the receiving aerial in such a way that it picks up the required radio signals at the best possible strength with the least amount of interference. The aerial should be erected as far as possible away from the sources of interference and as high as the circumstances permit.

In order to prevent the "lead-in" from the aerial to the receiver picking up the local interference, co-axial cable can be used. The aerial is connected to the inner lead of the top end of the "lead-in" cable, the other end of inner lead being connected to the aerial terminal on the receiver. The sheath of metal braid should be earthed at the receiver end. For dipole aerials, two co-axial cables can be used or, alternatively, the inner lead can be connected to one element (or arm) and the sheath to the other. Cable with two inner leads is sometimes available, thus one lead can be connected to each element. Some losses due to mismatching of the cable to the aerial and to the receiver are likely; discerning listeners may like to experiment with matching transformers. Advice on this may be sought from a local radio expert.

Choosing Wavelengths.

Listeners should always tune to the frequency which is advertised for the particular area in which they live because the transmissions on these frequencies are engineered in such a way as to provide the strongest and best results in that area under normal conditions. The signals have to be projected on the correct vertical and horizontal beams of the appropriate width and on the most suitable frequencies; thus they can reach the refracting zone of the ionosphere to return to earth again with the best possible strength at the listener's aerial. However, as conditions vary to such an extent from day to day and even from hour to hour, listeners may have difficulty in receiving the recommended frequency or the one on which they normally listen, so it is always advisable to try other frequencies which are available at the time.

Frequencies have to be revised at frequent intervals not only to keep pace with the seasonal changes in propagation but also to avoid interference. Frequency Schedules are compiled on the basis of both theoretical and practical considerations, see page 60: Table of the most suitable metrebands.

Choosing a Receiver

We must be quite impartial over the products of individual manufacturers and it is not possible, therefore, to recommend or offer advice here on any specific makes or models. The general advice which follows is intended to be helpful in the selection of a suitable receiver.

Waveband Coverage:

Perhaps the first consideration should be given to the wavebands to which the receiver should tune. As we have said earlier, only frequencies which are suitable for the prevailing conditions can provide the best results and it is, therefore, desirable that the tuning arrangements in the receiver should include all the wavebands which are likely to be required in listening at your location. In hours

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Weighs only 8 lbs

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SPECIFICATIONS

Dimensions :	7 5/8" (W) × 4 1/4" (H) × 7 1/4" (D)
Weight :	8 lbs.
Power Requirements :	AC and DC 12V.
Antenna System :	Built-in Telescopic Antenna Jack for External Antenna
Speaker :	3" Diameter
Circuit :	AGC : Pulse-operated Automatic Gain Control System
	AFC : Balanced Type Automatic Horizontal Frequency Control System
	ANS : Automatic Synchro-noise Suppressor
Transistors :	24 (5 Silicon-including 3 Epitaxial) (19 Germanium)
Diodes :	20
Picture Tube :	5", 70° Deflection, Aluminized Screen
Earphone Jacks :	2
Maximum Sensitivity :	10 μV

I-0007

of darkness during the minimum phases of the cycle of solar activity, a large part of Europe is dependent for shortwave reception upon the 75 metre (4 Mc s) band, the longest shortwave band used for broadcasting. Although medium waves may sometimes provide an alternative, the medium wave band is subject to so much congestion and interference that listening to distant stations is often unsatisfactory. The waveband coverage of the receiver should therefore include the 75 metre band, bearing in mind that it will be required only in winter during part of the solar cycle, but that there will be occasions when it is likely to be essential for satisfactory results.

The 49, 41, 31, and 25 metre bands (6, 7, 9, and 11 Mc's respectively) are included in almost every receiver with shortwave tuning. They will all be needed sooner or later as conditions demand.

The 19 metre band (15 Mc's) and possibly also the 16 metre band (17 Mc s) may well be needed during the maximum phases of the cycle of solar activity and will be found a great asset in obtaining good reception, particularly in daylight. The 13 and 11 metre bands (21 and 26 Mc s respectively) will not be required for listening in the nearer countries, but they will be essential for receiving transmissions from more distant sources. Receivers which include these shorter shortwave bands enable far distant stations, almost all over the world, to be well received when conditions permit.

Tuning and Band-spread.

Tuning on shortwaves, particularly on the higher frequencies, can require considerable patience and skill. There may be many stations within a very small compass of the dial and any backlash in the tuning mechanism can be most aggravating. The latter should, therefore, be checked to ensure that the tuning as well as the pointer responds accurately to reversals of the tuning knob.

In recent years, tuning has been made much easier by what is called "band-spreading". This is a device—usually electrical, although occasionally mechanical—whereby some or all of the shortwave broadcasting bands are extended to occupy the full length of the tuning scale. For example, the 13 metre band which covers from 21450 to 21750 kilocycles, or 13.99 to 13.79 metres, may be extended to occupy a scale six or more inches in length. Bandspreading simplifies tuning considerably, and all wavebands shorter than 31 metres should preferably be bandspread. Tuning is made much easier in the face of interference of any kind, including jamming.

The Tuned Radio-Frequency Amplifying Stage.

The majority of domestic receivers do not have a tuned radiofrequency amplifier in front of the mixer stage; nevertheless, it is important that such an amplifier be incorporated. The R.F. amplifying stage fulfils two very important functions. First, the sensitivity of the receiver itself tends to decrease the higher the frequency, and above about 15 Mc s the signal may be poor in relation to the unwanted noises generated in the receiver. The addition of an R.F. amplifying stage improves the signal-to-noise ration considerably, particularly on the shorter wavebands.

Secondly, the selectivity of the receiver is improved and what is known as "second channel" or "image" interference is reduced. This is often characterised by an annoying whistle of constantly changing note together with unwanted morse signals or programme modulation: alternatively, it may take the form of noise interference. Much of the interference experienced in the broadcasting bands is due to "image" effects, and the R.F. amplifying stage helps to eliminate or reduce them.

The radio-frequency and the intermediate frequency stages are more important for shortwave listening than the audio-frequency stages which supply the power for the loudspeaker and largely determine the quality and maximum volume. Push-pull output stages and loudspeakers with wide audio-frequency range are excellent items in themselves, especially for local station listening or gramophone reproduction, but for shortwave reception it is the sensitivity and selectivity of the earlier stages which count most.

Automatic Gain Control.

Practically all modern receivers are equipped with automatic gain control circuits (A.G.C.) which help to combat changes in signal strength by maintaining the output from the loudspeaker at a reasonably constant level. Unfortunately, this system makes tuning slightly more difficult, since the action of the A.G.C. tends to mask slight mistuning of the receiver with a consequent increase in distortion. A useful, but not essential, refinement is a tuning indicator or "magic eye" which enables one to tune in to a signal with a much greater degree of accuracy.

A further refinement which can be extremely useful is the fitting of terminals or sockets on the aerial panel at the back of the receiver to allow connection to a "dipole" aerial.

To summarise the more desirable items in the receiver specification, the waveband coverage is most important whilst at least one tuned radiofrequency amplifying stage is desirable if reasonably interference-free results are to be obtained. Bandspread tuning is a valuable asset, since it enables crowded stations to be more easily separated. Powerful automatic gain control is necessary to smooth out large variations in signal strength. Variable selectivity is incorporated in some receivers and can often be used to considerable advantage in overcoming interference.

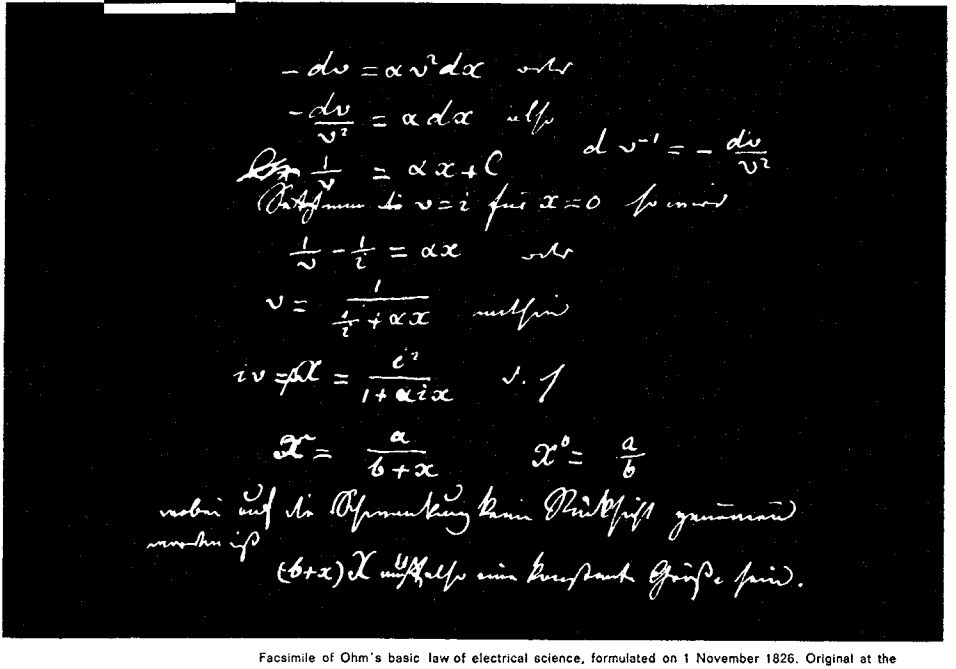
From »Listening to London« and »Radio Nederland«.

We want your help

We wish to get in touch with shortwave enthusiasts in all countries who will cooperate with us for the following purposes:

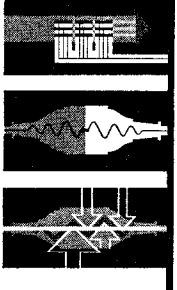
- Help us to create touch between short wave fans in other countries and in your's.
- Help us to spread knowledge of WRTH by, for example, distributing our brochure to interested friends and acquaintances.
- Send us from time to time reports on the results of your listening. If you are able to send us reports regularly (monthly) we will send you our World Radio Bulletin every fortnight.
- Send us your criticism and wishes about the contents of WRTH — your own and those of your friends. Write to Lund Johansen, Lindorfsallé 1, Hellerup, Denmark.

TUCHEL-KONTAKT



Facsimile of Ohm's basic law of electrical science, formulated on 1 November 1826. Original at the Deutsches Museum, Munich.

Electric connectors, so necessary for the operation of electronic apparatus, are developed under the same stringent rules as any other precision component. The **laws of nature** are the foundation of such development, and to harness them efficiently for exploitation can be achieved only by consequently adhering to the principles governing the resulting hardware.



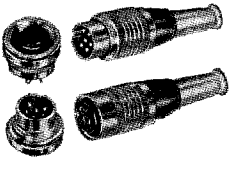
Low Voltage Drop

Low Constant Contact Resistance

Long Life

High Vibration Resistance

Imperviousness to Environment



6 contact miniature connector with coupling nut
T 3400/1 T 3401/1 T 3402 T 3403

. . . are the demands of modern practice. These requirements are fully met by means of a large number of contact points connected in parallel, using the whole engagement depth of the mated contact elements.

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THE TK DESIGN MEANS SAFETY

AERIALS

Good reception does not depend upon the receiver alone —the sounds which it reproduces must depend upon the quality of the signal which is fed into it. A large and expensive receiver may, therefore, not give good results unless it is connected to an efficient aerial.

Good insulation from earth

In radio technology, the word "earth" is used in its broadest sense. Trees, bushes and even houses are "earth", particularly in wet weather. A waterpipe makes an excellent earth, because the supply pipes often lie in water under the soil

A good insulation from earth, therefore, means keeping the aerial as far away as possible from trees, gutters etc. When lashing the ends of an aerial to a tree, chimneystack, etc., they must be isolated by means of ceramic, glass or plastic insulators.

Material

Because the aerial has to remain in the open air, it is subject to corrosion. The effect of high winds also plays a role in the selection of the most suitable material. Naturally, only wire having a high conductivity should be used. Practice has shown that silicon-bronze wire fulfills the requirement adequately, but there are several other copper alloys which are suitable for the purpose. The ordinary soft copper wire should not be used, as it will almost certainly break in a high wind.

Stranded copper wire (Litz wire) can also be used, as well as ordinary insulated domestic wire. The insulation does not have any unfavourable influence on reception and, in addition, protects the wire from weather influences. So don't remove it!

Matching the aerial to your Receiver

Owing to the considerable technical differences in radio receivers, it is not possible to give a general rule for matching. It is obvious that maximum results will be obtained by using an aerial of the same impedance, as the loss of signals will then be limited to a minimum.

Height

An aerial should be erected as high as circumstances permit. The greater the height the stronger is the incoming signal and the weaker is the factor of interference from such sources as ignition systems, refrigerators and so on. The height of the aerial is always measured down to the nearest "earth".

The lead-in

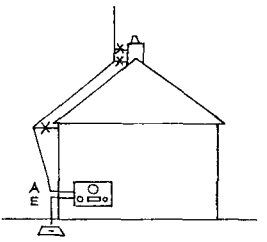
The lead-in to the receiver must be well insulated, and its length must be kept to a minimum. It should not be laid less than 4 inches (10 centimetres) from any electrical supply cable. The plug used at the point of connection to the receiver must make good contact with the aerial input socket.

Various Types of aerial

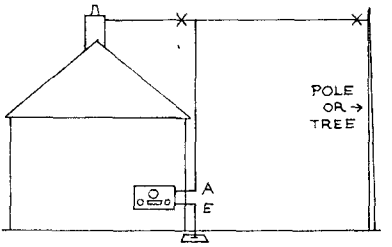
1. VERTICAL ROD:

Equally sensitive in all directions and will work satisfactorily on most broadcast bands. The rod should be about 5 metres in height, mounted as high as possible above the ground.

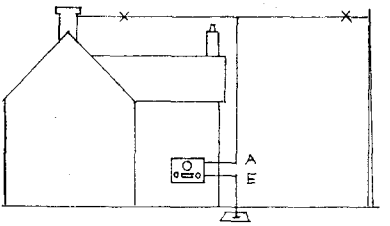
(Continued page 44)



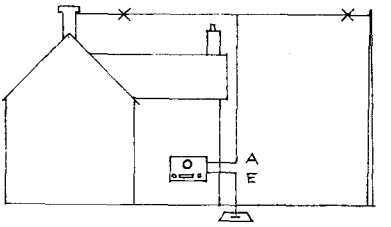
VERTICAL ROD **1**



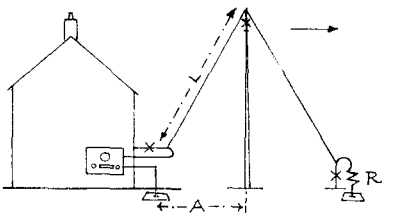
INVERTED L AERIAL **2**



T AERIAL **3**

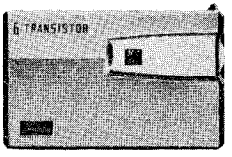


HORIZONTAL DIPOLE **4**



INVERTED V AERIAL **5**

seeing and hearing is believing

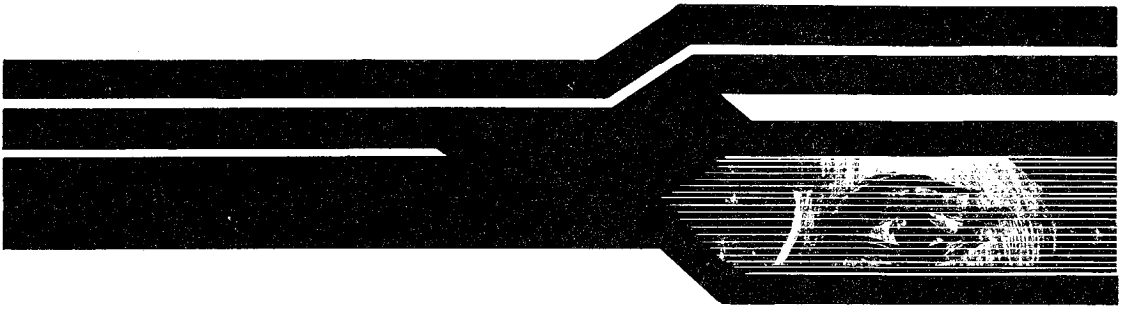


Or you can ask convinced customers around the world who rely on TOSHIBA communications equipment such as:

studio television cameras, video tape recorders, home TV sets, palm-sized transistor radios, tiny tubes and miniature transistors.

Our customers know that the TOSHIBA label guarantees ingenious craftsmanship plus never-ending efforts for improvement.

For detailed information (there are cost-saving and fast-delivery advantages) please write today to Toshiba, Foreign Trade Division, Hibiya Mitsui Bldg., Yurakucho, Tokyo, Japan.



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Emetteur Protestant International (EPI)
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THE PROJECTED EUROPEAN PROTESTANT RADIO STATION IN SWITZERLAND BROADCASTING THE GOSPEL IN:

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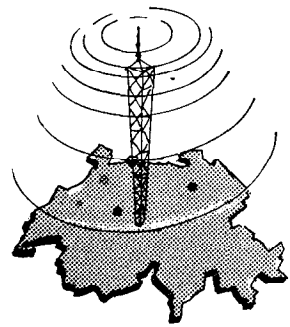
- It is intended to broadcast 8 hours daily over several wave bands in sufficient power to cover all European countries and beyond.
- Leaders of State Churches and Free Evangelical Churches in 58 nations have given their support to the project.
- The Station will be under the supervision of an Interdenominational European Committee.



Details regarding this project are issued in "epi news service" (German, French, Italian, Dutch and Spanish editions are also available). For further information and FREE Radio Brochure, write to:

E. P. I. – P. O. Box 392, B E R N E 2 (Switzerland).

Shielded cable is recommended for the lead-in to the receiver, the outer sheath being earthed at the receiver end only. If bare wire is used, insulators must be employed at all points where the lead-in comes in contact with the building. It is advisable to use them, even when insulated wire is used. It is a wise precaution to fit a lightning arrestor with this and all types of outside aerials.

2. INVERTED "L" AERIAL:
Almost equally sensitive in all directions and will work satisfactorily on most wavelengths used for broadcasting. Can be 10 to 30 m. in length, suspended as high as possible. Shielded cable may be used for the lead-in if there is local interference.

3. "T" AERIAL:
There is little difference between the "T" and inverted "L", the choice depending almost entirely upon the local layout and facilities for suspension.

4. HORISONTAL DIPOLE:
Mainly sensitive to signals arriving at right angles to its length. Thus interference from signals from other directions may be reduced. The length of the aerial is critical in that each half should be approximately equal to one quarter of the wavelength you wish to receive. Thus, for the 31-metre band, for example, each half should be about 7¾ m. long. Its performance is comparatively poor on wavebands for which it is not designed. Furthermore, it will not operate properly unless the receiver input is suitable. Some receivers have this facility, but many will need modification. An independent earth connection should be made to the receiver, but lightning arrestors connected between each lead and earth are recommended.

5. INVERTED "V" AERIAL:
This aerial is also strongly directional and is mainly sensitive to signals coming from the direction in which the arrow points. The length of each of the two limbs should be half a wavelength longer than the distance A. Typical dimensions for an aerial suitable for 11 to 19 m. are:

Mast 20 m.
Length (L) 25 m. R = 400 ohms
Half base line (A) 15 m.

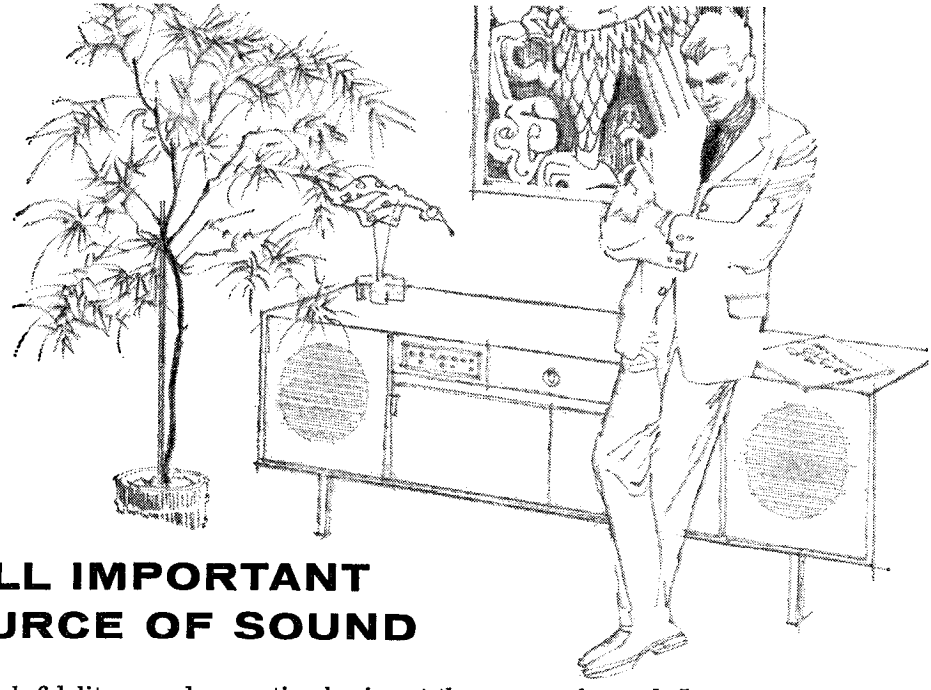
Such an aerial would be satisfactory over the other short-wave bands. The receiver should be separately earthed.

In conclusion, here are some points which may well be of importance.

External interference experienced with aerials having a single lead-in can be reduced by the use of a co-axial cable for the lead-in. The centre conductor is connected to the input of the receiver and the shield to earth. When purchasing co-axial cable for this purpose, make sure that it possesses the lowest possible capacity per foot and also keep the length to a minimum.

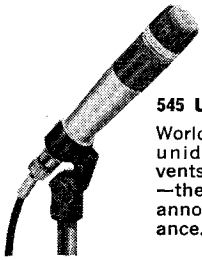
Interference from the mains supply, such as that caused by fluorescent lamps, washing machines and other electric apparatus, can best be reduced by the use of so-called "interference suppressors" which are connected directly to the source of the interference. Your radio dealer will be pleased to advise you further in this matter.

From "Listening to London"



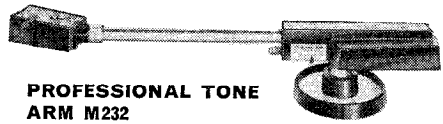
THE ALL IMPORTANT SOURCE OF SOUND

True high fidelity sound recreation begins at the *source* of sound. Just as a camera is no better than its lens, a phonograph is no better than its cartridge . . . a sound system is no better than its microphone. The cartridge must translate record groove undulations into precise electrical impulses—and the microphone must interpret speech and music—without addition, subtraction or distortion of the most subtle nuances. Finest quality components at the source result in an amazing realism and accuracy of sound that makes listening to true high fidelity a genuinely rewarding experience.



545 UNIDYNE III

World's most compact, probe-type, unidirectional microphone. Prevents over-emphasis of bass tones —the perfect solution to halls with annoying resonances. Dual impedance. 50-15,000 cps response.



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For use with any quality cartridge . . . mono or stereo. Floats with needle over the record . . . without "drag" or "skip".

New Improved INTEGRATED TONE ARM AND CARTRIDGE M222

A stereo tone arm with cartridge that recreates sound with astonishing fidelity. Tracks at incredibly light ¾-1½ grams—minimizes record wear. Striking modern design.

55S UNIDYNE II

The most widely used, high quality P.A. system, unidirectional microphone. Ultra-cardioid pick-up pattern suppresses feedback. High-output. Can be used with low-gain systems. 50-15,000 cps.

M33 STERIO DYNETIC

Shure's finest high fidelity cartridge. Tracks stereo recordings at pressures as low as ¾ gram with superb fidelity. Model M77 available for tracking at 3 to 6 grams.

For literature write to:

SHURE

Export Department, SHURE BROTHERS, INC.

222 Hartrey Avenue, Evanston, Illinois, U.S.A.

THE WORLD OF RADIO BROADCASTING

By Roger Legge, USA.

Broadcasting stations are assigned specified bands for operation, as follows:

LONG WAVE (Low Frequency)		MEDIUM WAVE (Medium Frequency)	
Kilocycles	Meters	Kilocycles	Meters
150–285	1053–2000	525–1605	187–571

SHORT WAVE
Tropical Broadcasting Bands

Kcs.	Megacycle Band	Meter Band
2300–2495	2	120
3200–3400	3	90
4750–5060	4	60

HIGH FREQUENCY BROADCASTING BANDS

Kcs.	Megacycle Band	Meter Band
3900– 4000	3.9	75
5950– 6200	6	49
7100– 7300	7	41
9500– 9775	9	31
11700–11975	11	25
15100–15450	15	19
17700–17900	17	16
21450–21750	21	13
25600–26100	25	11

Some broadcasting stations operate outside of the assigned bands, mainly near the edges of these bands.

The LONG WAVE BAND (used in Europe) and the MEDIUM WAVE BAND (used worldwide) are used mainly for domestic broadcasting, but are used also for some international broadcasting to adjacent countries. Although long and medium wave station are normally heard only for moderate distances, long distant reception is possible over dark transmission paths, mainly during the fall, winter and spring months in the reception area.

The TROPICAL BROADCASTING BANDS are assigned for use for *domestic* broadcasting in tropical areas, where high atmospheric noise levels limit the service area of medium wave stations. DX reception on these bands is best when the transmission path between the transmitter and receiver is all or mostly in darkness. These bands are used mainly by stations in Latin America, East and West Africa, South and Southeast Asia.

The HIGH FREQUENCY BROADCASTING BANDS, between 3.9 and 26.1 megacycles, are used for both international and domestic broadcasting. These bands are allocated for worldwide use, except that the 3.9 and 7 mc. bands are not allocated for broadcasting in the American area.

Reception conditions on these bands vary according to the time of day and season of the year. Most of the international broadcasting stations make seasonal changes in frequency usage, especially on the first Sunday of March, May, September and November. In addition, frequency and times changes are made at other times during the year, due to interference, change of program times, addition of new transmitters, etc. A large percentage of the domestic broadcasting stations operating in the high frequency bands do not make seasonal frequency changes, but some, particularly the stations in India, Pakistan, USSR and South Africa, do make seasonal shifts.

The *3, 6 and 7 mc. bands* are best for distant reception when the transmission path is all or mostly in darkness, and during fall to spring months in the reception area. Reception at any point is therefore best from the East from shortly before sunset until several hours before dawn, from the West around dawn and several hours prior to that time, and from the North and South at any time during the night hours.

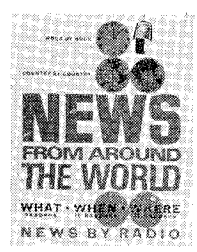
The *9 and 11 mc. bands* also are best for long distant transmission on darkness paths, but reception is possible several hours before and after usable hours on lower bands. For moderate distances, such as within Europe, daytime propagation is satisfactory for 9 and 11 mc. transmissions.

The *15, 17, 21 and 25 mc. bands* are, in general, best during periods of daylight on the transmission path, except that the 15 and 17 mc. bands are open on night paths during the summer months.

With regard to seasonal variation, the best bands for night reception are lower in winter than in summer. The best bands for daylight path reception are higher in winter than in summer

Satisfactory reception of broadcasts from various areas of the world therefore depends considerably on listening on the most suitable bands at the most favorable times of the day (see the table page 50). Application of these principles, together with reference to accurate program and frequency schedules, should enable any listener to hear stations of many countries in all parts of the world.

News from Around the World



HERE IT IS!

THE NEWS EVERYONE HAS BEEN WAITING FOR!

The key to worldwide listening pleasure as never before.

Your hour-by-hour guide to the News broadcasts in all languages from the four corners of the world.

Just off the press. »News From Around The World — News Of The World — Hour By Hour« only $ 1.00, £ 0/8/0, DM 5.00, Da. Kr. 8.00, Sw. Kr. 6.00.

Here at last is a complete listing of the thousands of news broadcast in all languages, which are broadcast to listeners everywhere, day and night. An essential guide for everyone who wishes to be informed.

Hear the news direct from where it is happening, by those who are making it!

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The iron oxide surface of Gevasonor Type 2.01

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- minimum wear of the sound heads, which ensures permanently good high-frequency reproduction ;
- no build up of dust on the face of the sound heads, therefore better recording quality.

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Type 2.02 : of higher sensitivity than the normal film Type 2.01 (+ 5 decibel) with less distortion (0.5 per cent.) ; used for special work ;

Type 2.21 : 35 mm magnetic film with two tracks ; mostly used at the editing stage of 35 mm film production ;

Type 2.11 : 35 mm magnetic film with clear edges.

GEVAERT

All Gevasonor Magnetic Films have the new glossy coating !

Any further information will be gladly supplied by
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Publicem

SHORT WAVE CONDITIONS DURING 1963

By Stanley Leinwoll, Radio Frequency and Propagation Manager, RFE

DURING 1963, the trend toward decreased sunspot activity which began in April 1958, will continue. Since sunspots directly affect the ionosphere, the importance of decreased solar activity on long distance high frequency radio communications cannot be overlooked.

The ionosphere is an electrified region which exists from 100–500 km above the earth. It has the unique property of being able to reflect radio waves over great distances. The range of frequencies which the ionosphere can reflect depends to a considerable extent on the amount of ultraviolet radiation reaching it from the sun.

The amount of ultraviolet radiation reaching the ionosphere varies significantly, as a result of which the range of frequencies that the ionosphere can reflect changes over a wide range, incl. changes from day to night, from season to season, from one location on the earth to another; in addition, from year-to-year, over an 11 year cycle.

These year-to-year changes are most commonly referred to as the 11-year sunspot cycle, because the number of sunspots appearing on the sun vary from a minimum to a maximum and back to a minimum again during a period which averages slightly above 11 years duration. Since the amount of ultraviolet radiation reaching the ionosphere is directly related to the number of spots appearing on the sun, it is evident that the 11-year sunspot cycle is perhaps the most important factor influencing the characteristics of the ionosphere.

In general, the greater the number of sunspots, the greater the intensity of ultraviolet radiation reaching the ionosphere, and the higher the frequencies the ionosphere can reflect. During 1957–58 more sunspots appeared on the sun than at any previous time. As a result, the range of frequencies the ionosphere could reflect was greater than had ever been observed in the entire history of radio communications. Short wave conditions in the 26, 21, 17, and 15 Mc broadcast bands were better than they had ever previously been, while conditions in the lower bands were relatively poor.

As can be observed from the accompanying illustration, there has been a steady decrease in sunspot activity since 1958. As a result, the higher bands have been losing their value, while the lower bands, 25, 31, 41, 49, meters have been improving steadily.

During 1963, sunspots will continue their downward trend, with the result that the higher bands will continue to deteriorate while the lower bands will become more and more important.

A general summary of expected conditions in 1963:

11 meters: The outlook for this band is not encouraging during 1963. During the years of high sunspot activity, this band was open for longer than at any previous period in the history of radio. Now, it has all but disappeared, with practically no broadcast use being made of it.

13 meters: During the years of maximum sunspot activity this band was best during the daylight hours to most areas of the world during all seasons. On some circuits the band was also open during the evening and nighttime hours. During the summer months of 1963, very limited use of the band is expected over east-west circuits, with some more use being made over circuits into the southern hemisphere.

Fall and Spring should see some improvement, but for openings on east-west paths the winter months will be best.

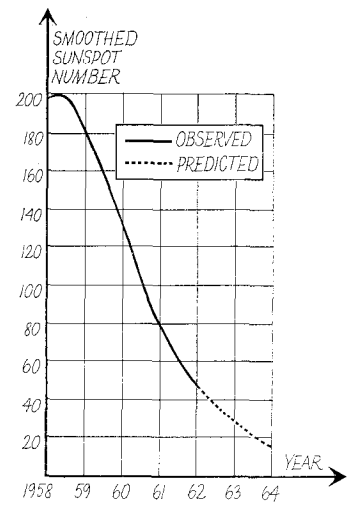
16 meters: Trans-oceanic openings during the daylight hours of the fall, winter, and spring months will be more common than the 13 meter band, and over circuits to and from the southern hemisphere there should be good activity during all seasons of 1963.

19 meters: During the years of high sunspot activity this band was often good *around the clock* during many months. During 1963 this will not be the case, although 19 meters should be the best band for DX during the daytime hours. In the summer the band should be open from shortly after sunrise to several hours after sunset. During the fall and winter months good DX will be possible during the daylight hours, but during the winter months this will be of short duration, since there are relatively few hours of daylight in the northern hemisphere.

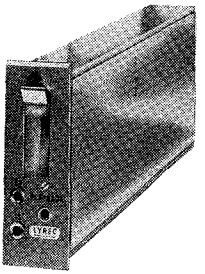
25 and 31 meters: During the winter months of 1963 there will be relatively few openings in an east-west direction after dark, with some activity over circuits between the northern and southern hemisphere. During the summer months, these bands should be fairly good during the evening hours to most parts of the world. During the summer daytime period, openings should occur over shortdistance circuits, to distances up to about 1200 miles.

41 and 49 meters: These will be the best bands for nighttime DX for most of the year, with the possible exception of the summer when 31 meters will also be good. During the winter months, 49 meters will be the most used band, with extreme crowding and heavy interference expected. Since this is the lowest band allocated internationally, many broadcasters will be using it, since it will be the only one propagationally of value.

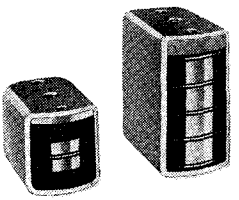
60, 80, and 160 meters: During the winter months, when noise levels are low, these bands will be more useful for DX than at any time since 1955. In addition, some DX is possible during the spring and fall on quiet nights. Some short range openings are also likely during the late afternoon, evening, nighttime, and early morning periods.



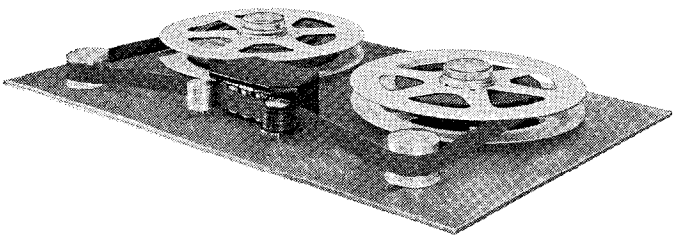
Transistorizing your Studios?



Transistorizing Recording- and Playback Amplifiers to match broadcast specification for vacuum tube amplifiers is a tall order. Lyrec has made it and can supply the amplifiers in cassettes as shown above or built together with transistorized auxiliaries (monitors etc.) in any combination for mono and/or stereo application (MS/XY).



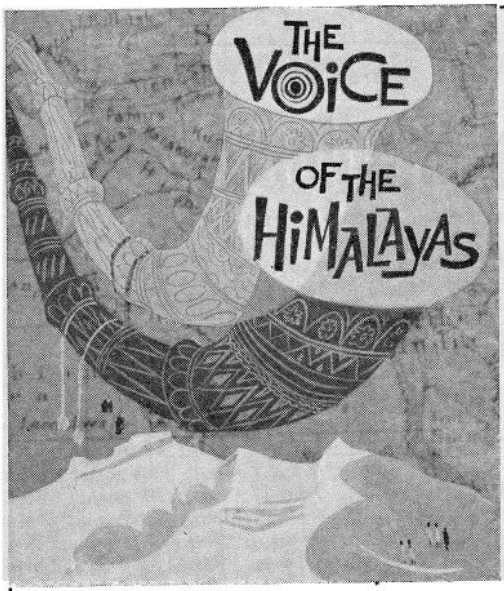
The new master-recorder TR31, shown below, with four fully independent tracks on 1" tape is supplied with all transistorized amplifiers, bias generators, and will fill the great demand for a pre-master tape without loss in signal/noise ratio. Please write for details of these products as well as of our new line of magnetic heads for professional recorders and instrumentation recorders up to 16 tracks on 1" tape.



A/S LYREC

Electro-Acoustic Equipment
HOLLANDSVEJ 12
KGS. LYNGBY
DENMARK

TELEPH. 87 63 22
CABLES: LYRECORD, COPENHAGEN



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ANNOUNCEMENT EXTRAORDINARY:

Nepal

The Kingdom in the Himalayas

will start HIMALAYAN COMMERCIAL BROADCASTING SYSTEM, FOREIGN and OVERSEAS SERVICES, in 1963/64

For Listeners in Asia and the Middle East in:
ENGLISH, FRENCH, HINDI, URDU, BENGALI, THAI, SPANISH, JAPANESE, SINGHALESE and BURMESE

HIMALAYAN BROADCASTING SYSTEM (HIMBROS) KINGDOM OF NEPAL

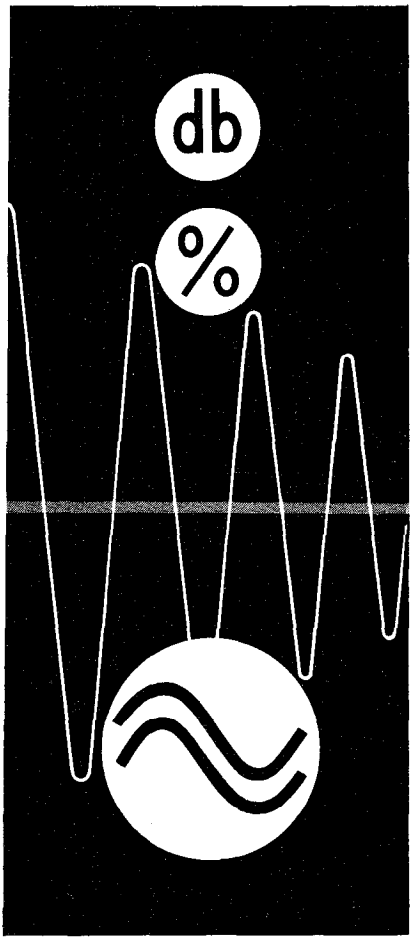
HIMBROS AG, Glarus, Switzerland OR P. O. Box 133/7, Zurich 44, cables: AIRTIMESALES Zurich

TABLE OF THE MOST SUITABLE METRE BANDS, 1963

The table shows the bands that are likely to be best for short wave reception to and from every major area in the world at various times of the day from the period November, 1962 to October, 1963. The above figures should be used as a guide only. Where the band given is not suitable, use the one immediately above or below. To use the tables, first choose the area in which you are located, then for the time desired, slide your finger across the line until you have located the area to which you want to listen, for the proper season. For example, a listener in the European area would best receive the 31 m. b. at 07GMT from the M. E. during the period November 1962 to February 1963.

By *Stanley Leinwoll*, Radio Frequency and Propagation Manager, RFE.

THE LISTENER'S AREA	Local time	Approx. GMT Time	LOCATION OF TRANSMITTING STATION																										
			NOV. 1962–FEB. 1963									MAR./APL., SEPT./OCT. 1963									MAY–AUGUST 1963								
			Eu/No.Af.	ME.	N.Am.(E)	N.Am.(W)	So. Am.	C./So.Af.	So.As.	Ea.As.	Aus./NZ.	Eu/No.Af.	ME.	N.Am.(E)	N.Am.(W)	So.Am.	C.So.Af.	So.As.	Ea.As.	Aus./NZ.	Eu/No.Af.	ME.	N.Am.(E)	N.Am.(W)	So.Am.	C./So.Af.	So.As.	Ea.As.	Aus./NZ.
EUROPE AND NO. AFRICA	07	06	41	31	49	41	31	19	16	19	25	41	31	49	25	25	19	19	19	25	31	19	25	25	25	19	19	25	25
	15	14	19	19	13	19	19	16	19	19	25	19	19	16	19	19	16	19	19	25	19	19	16	19	19	16	19	19	25
	21	20	49	49	31	25	25	31	49	49	31	49	49	19	25	31	31	41	41	31	41	41	19	19	25	25	25	31	31
MIDDLE EAST	07	05	31	49	49	49	41	19	16	16	16	31	41	49	31	31	19	16	16	16	19	31	25	19	25	19	16	16	19
	15	13	19	31	13	25	19	13	19	19	25	16	31	16	31	19	16	19	19	31	19	25	16	19	19	16	19	19	25
	21	19	49	49	31	19	19	31	49	41	19	31	49	19	19	25	31	31	31	19	31	41	19	19	25	25	25	25	19
NO. AMERICA (EAST)	07	12	19	19	25	31	25	19	31	31	31	19	19	19	31	25	19	25	31	25	19	19	25	25	25	16	25	25	25
	15	20	31	25	31	19	19	25	25	25	19	19	25	25	19	19	25	25	25	19	19	19	19	19	19	19	19	19	19
	21	02	49	49	49	31	31	31	31	31	25	49	49	49	31	31	31	31	19	19	25	31	31	25	25	31	25	16	19
NO. AMERICA (WEST)	07	15	16	19	25	49	19	31	41	41	41	19	19	25	41	19	25	25	25	25	16	16	25	25	19	19	25	25	25
	15	23	31	31	19	19	19	25	25	19	16	25	25	19	19	19	25	25	19	19	19	19	16	19	19	19	19	19	19
	21	05	49	49	49	31	31	60	31	31	19	49	49	49	41	31	31	19	25	16	25	25	31	19	25	25	19	25	19
SOUTH AMERICA	07	11	19	19	31	31	41	19	19	31	31	19	16	25	31	31	19	19	31	31	16	16	19	25	31	16	19	25	25
	15	19	19	16	19	19	19	31	25	19		19	19	19	19	19	25	25	19		19	19	19	19	19	19	19	19	19
	21	01	31	31	31	25	49	25	31	31	25	31	31	25	19	49	25	31	31	19	25	25	25	19	31	25	25	25	25
CENTRAL AND SO. AFRICA	07	05	31	19	31	31	49	49	16	19	13	31	19	31	25	31	49	16	19	19	19	19	16	19	25	31	16	19	19
	15	13	13	13	13	31	19	19	19	19	19	13	16	13	31	19	19	19	19	19	16	16	19	19	19	16	19	19	25
	21	19	31	31	19	19	19	60	31	31	31	31	31	16	19	19	60	25	25	25	25	25	31	25	19	49	25	25	19
SOUTH ASIA	07	02	49	49	49	13	31	25	31	19	16	31	31	31	16	31	25	25	19	19	25	25	25	19	19	31	25	19	16
	15	10	13	16	31	31	31	16	19	19	25	13	16	25	31	25	19	19	19	25	19	16	19	25	19	16	19	19	31
	21	16	19	19	19	49	19	25	49	31	31	25	19	19	31	19	25	19	25	31	19	16	19	25	19	19	31	25	31
EAST ASIA	07	23	41	41	25	16	19	25	31	31	19	31	41	19	16	19	31	31	31	19	25	19	19	16	19	31	31	31	25
	15	07	13	19	31	25	25	19	19	19	16	13	19	31	19	25	19	19	19	16	19	19	19	19	19	19	19	19	16
	21	13	19	19	31	49	31	16	31	49	41	16	16	31	31	41	19	31	49	31	16	16	25	31	25	16	31	31	31
AUSTRALIA AND N. ZEALAND	07	21	41	41	19	19	19	25	31	31	31	31	31	16	16	19	25	31	31	31	25	25	19	16	19	19	19	19	19
	15	05	31	25	49	25	25	19	16	19	19	25	25	25	19	19	19	16	19	19	19	19	19	19	16	19	19	19	19
	21	11	16	16	31	49	31	31	19	25	31	19	19	25	31	31	25	19	25	41	19	19	25	31	25	25	19	25	25



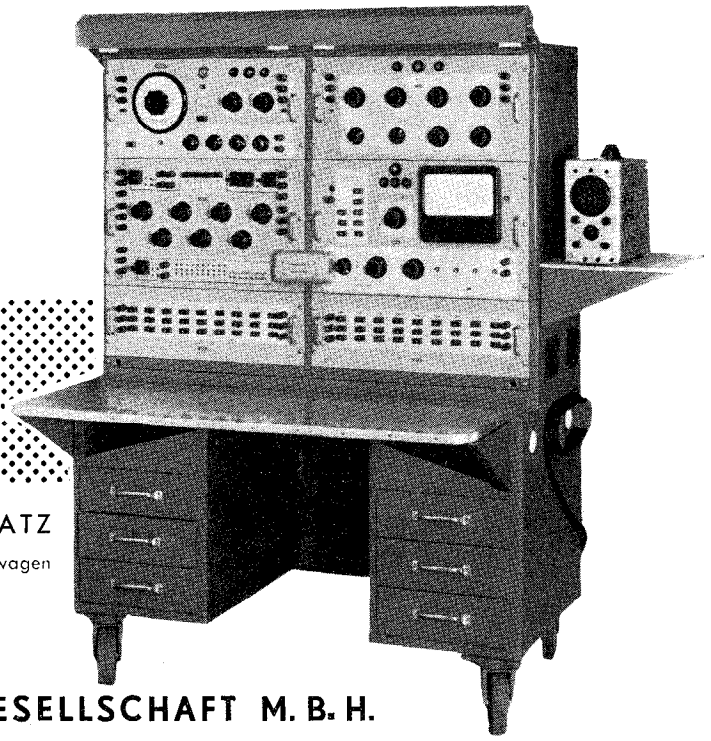
WSW

STUDIOTECHNIK

STUDIOEINRICHTUNGEN FÜR RUNDFUNK UND FERNSEHEN

STUDIO INSTALLATIONS FOR BROADCASTING AND TELEVISION

INSTALACIONES DE ESTUDIOS PARA RADIO Y TELEVISIÓN



NIEDERFREQUENZ-MESSPLATZ

für Laboratoriumsmessungen in fahrbarem Meßwagen

SIEMENS & HALSKE GESELLSCHAFT M. B. H.

WIENER SCHWACHSTROM WERKE

ABTEILUNG ELEKTROAKUSTIK, STUDIOTECHNIK UND ELEKTRONISCHE MESSGERÄTE

AUSTRIA, WIEN III, APOSTELGASSE 12 · TELEPHON 72 66 11

Pictures
OF THE WORLD

1. **Bocaranga** – Balafond-instrument.
2. **Radio Nederland Wereldomroep:** A nice cup of tea. Edward Startz Head of the broadcast: The Happy Station.
3. **Radio Japan:** A scene of the broadcast of the "Let's Speak Japanese"; From left to right: Mrs. Rosemary Farrelly, wife of a member of the Australian Embassy in Tokyo. Dr. Matsumoto and Miss Mitsuko Tomobe of the Tokyo Broadcasting Drama Troupe.
4. **Territory of Papua and New Guinea:** Men of the Banz area in the Western Highlands re-enact a traditional tribal ceremony as part of their official welcome to a United Nations visiting mission.
5. **United Nations:** Seen on the presidential rostrum during a General Assembly from left to right: Acting U.N. Secretary General U. Thant, General Assembly President Mongi Slim (Tunisia) and C. V. Narasimhan, U.N. Under-Secretary in charge of General Assembly Affairs.
6. **North Borneo:** Radio Sabah interviews two Beauty Queens.
7. **The Voice of America:** Bill Leonard, host on the VOA's weekly prgr. for radio hams "The Radio Amateurs Notebook" interviews one of the most unusual families in ham radio. Every member of the Alessi family is a licensed radio amateur. Robert – age 6 – is probably the youngest licensed radio amateur in the world.

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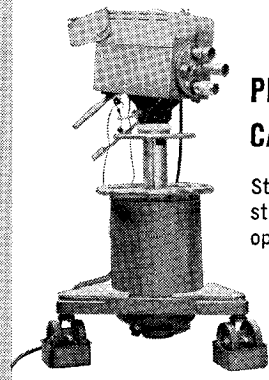
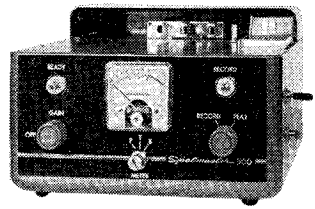


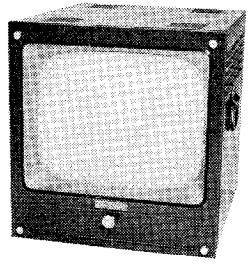
PNEUMATIC-BALANCE CAMERA DOLLY

Standard in major television stations. Smooth, effortless operation at a sensible price.

SPOTMASTER CARTRIDGE TAPE EQUIPMENT



The most popular cartridge tape equipment —Spotmaster—provides new techniques and conveniences in sound programming. Compact units for control room or field use.



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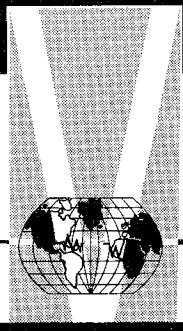
Internationally recognized as the practical TV monitor.

Excellent performance, stability and reliability—at a sensible price.



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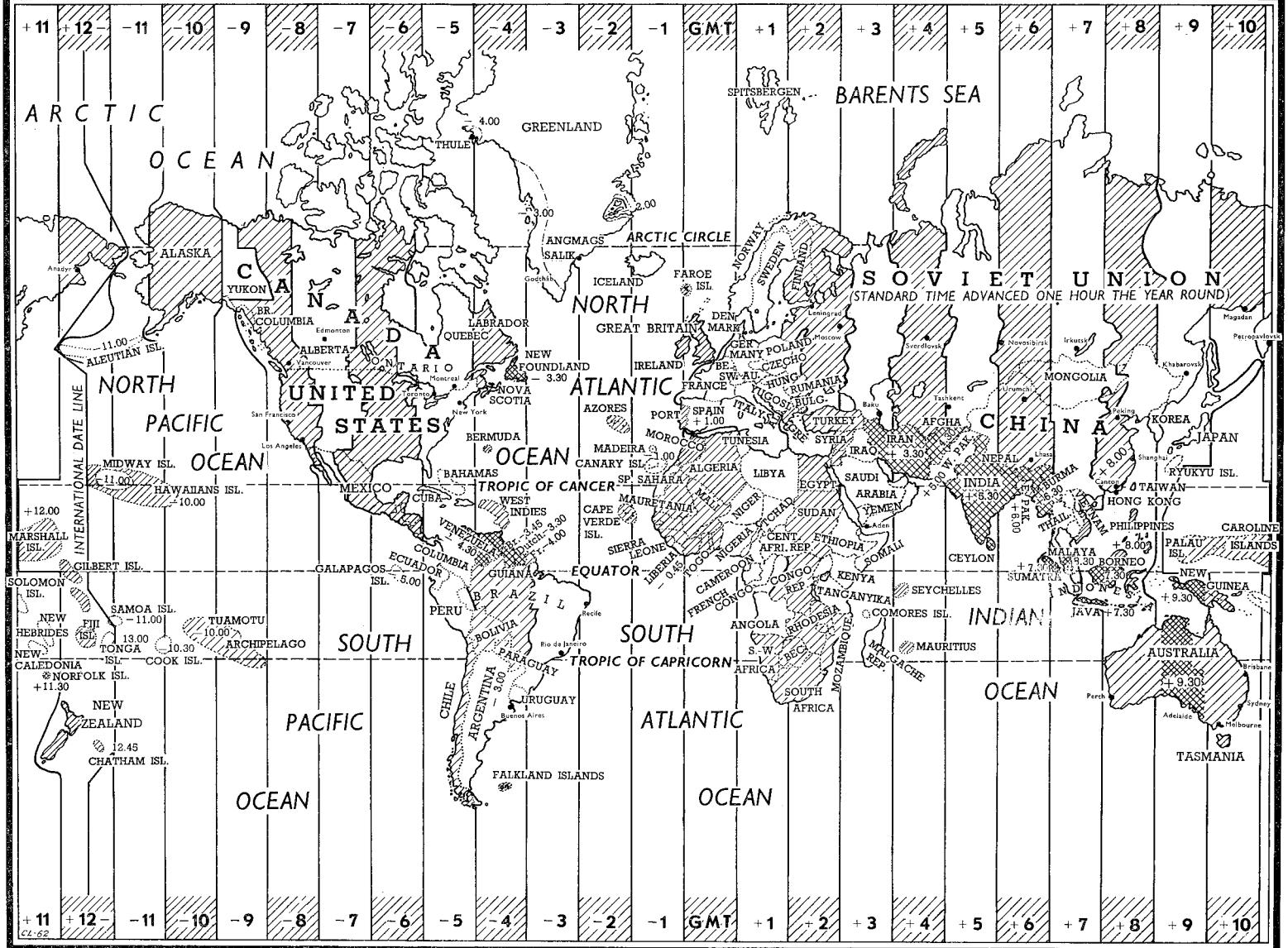
+11 +12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2 −1 GMT +1 +2 +3 +4 +5 +6 +7 +8 +9 +10
ARCTIC OCEAN
BARENTS SEA
SPITSBERGEN
GREENLAND
THULE
4.00
3.00
2.00
ANGMAGS SALIK
ARCTIC CIRCLE
ICELAND
FAROE ISL.
NORWAY
SWEDEN
FINLAND
SOVIET UNION
(STANDARD TIME ADVANCED ONE HOUR THE YEAR ROUND)
ALASKA
CANADA
YUKON
BR. COLUMBIA
ALBERTA
ONTARIO
QUEBEC
LABRADOR
NEWFOUNDLAND
NOVA SCOTIA
NORTH ATLANTIC OCEAN
GREAT BRITAIN
DEN.
GER.
POLAND
IRELAND
BE.
SW.
AU.
CZECHO
HUNG.
FRANCE
RUMANIA
YUGOS.
BULG.
TURKEY
SPAIN
PORT.
ITALY
GRE.
SYRIA
IRAQ
IRAN
AFGHA.
MONGOLIA
CHINA
KOREA
JAPAN
RYUKYU ISL.
TAIWAN
HONG KONG
PHILIPPINES
CAROLINE ISLANDS
PALAU ISL.
NEW GUINEA
INDONESIA
JAVA
SUMATRA
BORNEO
MALAYA
CEYLON
INDIA
NEPAL
BURMA
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Brisbane
Sydney
Melbourne
Adelaide
Perth
Darwin
Leningrad
Moscow
Sverdlovsk
Novosibirsk
Irkutsk
Khabarovsk
Magadan
Petropavlovsk
Urumchi
Peking
Shanghai
Canton
Lhasa
Tashkent
Baku
Aden
Anadyr
Godthab
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Vancouver
Toronto
Montreal
New York
San Francisco
Los Angeles
Mexico City
Havana
Caracas
Bogota
Lima
Recife
Rio de Janeiro
Buenos Aires
Montevideo
Asuncion
La Paz
Quito
Georgetown
Paramaribo
Cayenne
Trinidad
Jamaica
Haiti
Dakar
Freetown
Monrovia
Accra
Lagos
Abidjan
Conakry
Bissau
Bathurst
Casablanca
Algiers
Tunis
Tripoli
Cairo
Khartoum
Addis Ababa
Nairobi
Kampala
Dar es Salaam
Mombasa
Zanzibar
Entebbe
Kigali
Bujumbura
Lusaka
Salisbury
Blantyre
Beira
Lourenco Marques
Durban
Cape Town
Johannesburg
Windhoek
Luanda
Leopoldville
Brazzaville
Bangui
Fort Lamy
Kano
Niamey
Bamako
Dakar
Nouakchott
Las Palmas
Madeira
Azores
Bermuda
Bahamas
West Indies
Cuba
Mexico
Guiana
Venezuela
Columbia
Ecuador
Peru
Bolivia
Paraguay
Chile
Argentina
Uruguay
Falkland Islands
Galapagos Isl.
Midway Isl.
Hawaiians Isl.
Aleutian Isl.
Marshall Isl.
Gilbert Isl.
Solomon Isl.
New Hebrides
New Caledonia
Norfolk Isl.
New Zealand
Chatham Isl.
Fiji Isl.
Samoa Isl.
Tonga
Tuamotu Archipelago
Cook Isl.
International Date Line
TROPIC OF CANCER
EQUATOR
TROPIC OF CAPRICORN
PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
INDIAN OCEAN
CL-62

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G.M.T.

	Normal clock Time	Summer Time
Aden	÷3	÷3
Afghanistan	÷4½	÷4½
Alaska[1]	÷8	÷8
Albania	+1	+1
Algeria	+1	+1
Andorra	+1	+1
Angola	+1	+1
Argentina	÷3	÷3
Australia		
a) Victoria New South Wales, Queensland, Tasmania, (Brisbane, Melbourne, Sydney)	÷10	+10
b) N. Territory S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	÷2	÷1 1/4-1/10
Bahamas	÷5	÷5
Bahrain	+4	+4
Barbados(W.I.)	÷4	÷4
Bechuanaland	+2	+2
Belgium	+1	+1
Bermuda	÷4	÷4
Bolivia	÷4	÷4
Borneo, British North	+8	+8
Brazil		
a) Eastern and Coastal.	÷3	÷3
b) Manaos	÷4	÷4
c) Acre	÷5	÷5
Brunei, No. Borneo	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Burundi	+2	+2
Cambodia	+7	+7
Cameroon	+1	+1
Canada		25/4-25/9
a) New Foundland	÷3½	÷2½
b) Atlantic (Labrador, Nova Scotia, Quebec)*	÷4	÷3
c) Eastern (Ontario)	÷5	÷4
d) Central (Manitoba)	÷6	÷5
e) Mountain (Alberta)	÷7	÷6
f) Pacific (Br. Columbia)	÷8	÷7
g) Yukon	÷9	÷8
Canary Islands	GMT	GMT
Cape Verde Isl.	÷2	÷2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chatham Isl.	+12¾	+12¾
Chile	÷4	÷4
China		
Peoples Rep.	+8	+8
Shanghai	+8	+8
Canton	+8	+8
Lhasa	+6	+6
Urumchi	+6	+6
Taipei	+8	+9 1/6-30/9
Colombia	÷5	÷5
Comores Isl.	+3	+3
Congo, Rep. Leopoldville	+1	+1
Elisabethville	+2	+2
Congo (Franco African)	+1	+1
Cook Isl.	÷10½	÷10½
Costa Rica	÷6	÷6
Cuba (W.I.)	÷5	÷5
Curacao	÷4½	÷4½
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican R.	÷5	÷5
Ecuador	÷5	÷5
Egypt	+2	+3 1/5-30/9
El Salvador	÷6	÷6
Ethiopia	+3	+3
Falkland Islands	÷4	÷4
Faroe Islands	GMT	GMT
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
Gabon	+1	+1
Germany	+1	+1
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Ghana	GMT	GMT
Great Britain	GMT	+1** 1/4-1/10
Greece	+2	+2
Greenland		
Thule area	÷4	÷4
W. Coast exc. Thule	÷3	÷3
Angmagssalik	÷2	÷2
Guadeloupe	÷4	÷4
Guam	+10	+10
Guatemala	÷6	÷6
Guiana (British)	÷3¾	÷3¾
Guiana (Dutch)	÷3½	÷3½
Guiana (French)	÷4	÷4
Guinea	GMT	GMT
Guinea (Port.)	÷1	÷1
Guinea (Sp.)	+1	+1
Haiti (W.I.)	÷5	÷5
Hawaii	÷10	÷10
Holland	+1	+1
Honduras(Rep.)	÷6	÷6
Honduras (Brit.)	÷6	÷6
Hong Kong	+8	+9 1/4-31/10
Hungary	+1	+1
Iceland	÷1	GMT 3/4-31/10
India	+5½	+5½
Indonesia		
a)North Sumatra	+6½	+6½
b)South –	+7	+7
c)Java, Borneo, Bali	+7½	+7½
d)Celebes	+8	+8
e)Molucca Isl.	+8½	+8½
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	GMT	+1 15/4-15/10
Israel	+2	+2
Italy	+1	+1
Ivory Coast	GMT	GMT
Jamaica (W.I.)	÷5	÷5
Japan	+9	+9
Jordan	+2	+2
Kenya	+3	+3
Korea, Rep.	+9	+9
Korea,Dem.Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	÷4	÷4
Liberia	÷¾	÷¾
Libya	+2	+2
Luxembourg	+1	+1
Macau	+8	+8
Madeira	÷1	GMT 1/4-1/10
Malaya	+7½	+7½
Malgache Rep.	+3	+3
Mali	GMT	GMT
Malta	+1	+1
Marshall Isl.	+12	+12
Martinique	÷4	÷4
Mauretania	GMT	GMT
Mauritius	+4	+4
Mexico[2]	÷6	÷6
Monaco	+1	+1
Mongolia(Outer)	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	÷4½	÷4½
New Caledonia	+11	+11
New Guinea (Australian)	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	÷6	÷6
Niger	+1	+1
Nigeria	+1	+1
Norfolk Isl.	+11½	+11½
Norway	+1	+2 15/3-20/9
Pakistan		
a) West	+5	+5
b) East	+6	+6
Panama	÷5	÷5
Papua	+10	+10
Paraguay	÷4	÷4
Peru	÷5	÷5
Philippines	+8	+8
Poland	+1	+2
Portugal	GMT	+1 1/11-1/10
Puert.Rico(W.I.)	÷4	÷4
Reunion	+4	+4
Rhodesia (No.+So.)	+2	+2
Rumania	+2	+2
Rwanda	+2	+2
Ryukyu Isl.	+9	+9
Samoa Isl.	÷11	÷11
S. Pierre	÷3	÷3
S. Tomé	GMT	GMT
Sarawak	+8	+8
Saudi Arabia	+3	+3
Senegal	GMT	GMT
Seychelles	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somali	+3	+3
So. Africa	+2	+2
Spain	+1	+1
Sudan	+2	+2
Surinam	÷3½	÷3½
Swan Islands	÷6	÷6
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+2
Tanganyika	+3	+3
Tahiti	÷10	÷10
Tasmania	+10	+10
Tchad	+1	+1
Thailand	+7	+7
Timor	+8	+8
Togo	GMT	GMT
Tonga Islands	+13	+13
Trinidad(B.W.I.)	÷4	÷4
Tunesia	+1	+1
Turkey	+2	+2
Uganda	+3	+3
Upper Volta	GMT	GMT
Uruguay	÷3	÷3
U.S.S.R. Moscow,		
Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Magadan	+11	+11
Petropavlovsk	+12	+12
Anadyr	+13	+13
U.S.A.		
a) Eastern Zone	÷5	÷4 1/5-1/10
b) Central Zone	÷6	÷5 1/5-1/10
c) Mountain Zone	÷7	÷6
d) Pacific Zone	÷8	÷7 1/5-1/10
Vatican	+1	+1
Venezuela	÷4½	÷4½
Vietnam (Rep.)	+8	+8
Vietnam (Dem. Rep.)	+7	+7
Virgin Isl.	÷4	÷4
West Papua	+9½	+9½
Windward Isl.	÷4	÷4
Yemen	+3	+3
Yugoslavia	+1	+1
Zanzibar	+3	+3

* exc. the watch shore and Gaspé regions: 5 h. behind GMT.

** Summer Time in Britain starts at 02 hours GMT after the 3rd Sat. in Apr. (or 2nd Sat. if 3rd is Easter weekend) and runs until 02 h. GMT after the first Sat. in Oct.

1) a) Ketchikan to Skagway ÷8
b) Skagway to 141°W. long ÷9
c) 141°W. long to 162°W. long ÷10
d) 162°W. long to Western-most point (incl. Aleutians) ÷11

2) Generally ÷6
Lower Cal.
Pa. coast ÷7
No. part ÷8

STANDARD FREQUENCY AND TIMESIGNAL STATIONS

The ordinary short-wave listener soon notices a specialized technical program of tones and time pulses usually received on carrier frequencies of 2.5, 5, 10 or 15 Mc and sometimes on 20 and 25 Mc, if he listens in that part of the spectrum. These signals have many uses in science and technology. They are most useful to the non-specialist in obtaining accurate time, in cheeking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of short-wave reception. The forecasts are given by WWV, WWVH and JJY for certain parts of the globe.

R. STATION WWV AND WWVH (Go.)

ADDR.: National Bureau of Standards, Boulder, Colorado, USA – Station WWV, Greenbolt, Md. WWVH: Box 578, Puunene, Hawaii. **L.P.:** Chief Radio Broadcast Sce's: A. H. Morgan. Chief WWV: F. Sera. Chief WWVH: S. Katahara.

Standard Radio Frequencies: WWV: 2500 kc 1 kW – 5000 kc 8 kW – 10000 kc 9 kW – 15000 kc 9 kW – 20000 kc 1 kW – 25000 kc 0.1 kW. The Broadcasts are continuous, night and day, exc. for silent period. 45–49 min's past each hour.

WWVH: 5000 kc 2 kW – 10000 kc 2 kW – 15000 kc 2 kW. Continuous exc. for silent period from 15 minutes to 19 minutes past each hour and from 19.00–19.34 daily.

Time signals: The audio frequencies are interrupted at precisely 3 min.s before each h at WWV, and 2 min.s before each h at WWVH. They are resumed on the h at WWV and WWVH and at 5 min.s intervals at both stations except for silent periods mentioned above. Universal time is announced in International Morse Code each 5 min.s from both stations.

ANN.: "National Bureau of Standards, WWV., when the tone returns Eastern Standard Time is... AM or PM".

V. by QSL-card or letter – **PUB.:** Prgr. sched on request.

STANDARD FREQUENCY BROADCAST.

WWVL on 20 kc continuous. The call sign WWVL is given in International Morse Code each hour and each 20 min. thereafter. Transmission continuous – WWVB on 60 kc continuous. The call sign WWVB is given in International Morse Code each h and each 20 min. thereafter. New facilities for WWVB and WWVL under construction near Fort Collins, Colorado, will be in operation early in 1963 with high power.

NATIONAL PHYSICAL LABORATORY (Go.)

ADDR.: Teddington, Middlesex, Gt. Britain.

MFS Standard Frequency Service:

kc	m	kW		kc	m	kW	
2500	120	0.5	continuous*	10000	30	0.5	continuous*
60	5000	10	14.29–15.30	5000	60	0.5	continuous*

*exc. for break in transm. from 15–20 minutes past each h.

ANN.: Call sign 3 times in slow Morse. "This is MFS, Rugby transmitting standard frequencies on 2500, 5000 and 10000 kc, the frequencies being maintained constant within 5 parts in 10^9 by reference to an atomic standard". – V. by letter.

ROYAL GREENWICH OBSERVATORY

ADDR.: Time Dept. Herstmonceux Castle, Hailsham, Sussex, England.

The international time signals are radiated by GBR (16 kc) or reserve st. GBZ (19.6 kc) at 03.00, 09.00, 15.00 & 21.00 and on high frequencies at 09.00 and 21.00. The frequencies used are selected according to current ionospheric predictions. Frequencies available: GIC24 4025 kc, GIC26 6985 kc, GIC27 7397.5 kc, GIC29 9350 kc, GPB30B 10331.5 kc, GPB30 10332.5 kc. GKU5 12790 kc, GIC33 13555 kc, GIC37 17685 kc, GIA39 19640 kc.

TIME SIGNAL FROM DOMINION OBSERVATORY.

ADDR.: Dominion Observatory, Dept. of Mines and Technical Surveys, Carling Av., Ottawa, Ontario – **Te.:** Central 12-8211 – **L.P.:** Dir. Adm.: Dr. C. S. Beals. Dir. Tec.: M. M. Thomson.

Stations: CHU 3330 kc 90.09 m 0.75 kW – 7335 kc 40.90 m 3 kW – 14670 kc 20.45 m 3 kW (Systems TMC, Collins). – **Time Signals** continuous, in voice and second pulses.

ANN.: Hours and minutes announced during the last 10 seconds of each minute: "CHU Dominion Observatory, Canada, Eastern Standard Time". – V. by QSL-card. – Rep. not wanted. – **PUB.:** Prgr. sched. free on request.

STATION JJY

ADDR.: Radio Research Laboratories, Koganei, Tokyo, Japan. **Te.:** (0423)-8-1661 aerial non-directional – Call JJY – All st's 2 kW.

2500 kc 06.59–22.59 5000 kc 24 h daily
10000 kc 24 h daily 15000 kc 24 h daily

All standard frequencies are interrupted at 29–39 minute past each h. No audio modulation on 15 Mc – V. by QSL-card. Send rep's to Standard Frequency Section.

HBN NEUCHATEL OBSERVATORY

ADDR.: Neuchatel, Switzerland – **Cable:** Observatoire – **Te.:** (038)-5-1238 – **L.P.:** Dir.: J. Bonanomi, W. Schuler – On 5000 kc all day long:

Prgr. of transmission: continuous tr. interrupted every 5 min. for 5 min. according to the following schema: 00 m 00 s – 04 m 50 s silence, 04 m 50 s – 05 m 00 s HBN (A_2), 05 m 00 s – 10 m 00 s carrier transmission with seconds pulses, 10 m 00 s – 14 m 50 s silence, etc.

Within the hour, the tr. is the following:

Minutes 0–5 silence, 5–10 carrier and seconds pulses, 10–15 silence, 15–20 carrier and seconds pulses, 20–25 silence, 25–30 carrier and seconds pulses, 30–35 silence, 35–40 carrier and seconds, 40–45 silence, 45–50 carrier and seconds, 50–60 silence.

STATION LOL

ADDR.: Observatorio Naval de la Secretaria de Marina Costanera Sud, Buenos Aires – **L.P.:** Dir. Gen.: J. Marpegán.

Standard Freq. and Signals: LOL:

5000 kc 2 kW 10000 kc 2 kW 15000 kc 2 kW

D. 11.00–12.00, 14.00–15.00, 17.00–18.00, 20.00–21.00, 23.00–24.00.

Schedule: 4 min. dash (1000 or 440 c/s alternately) beginning at 00.00, 00.05, 00.10 etc. Then 3 × LOL in morse followed by ann. Time signal transmission at min. 55–59 in each h.

STANDARD FREQUENCY STATION OMA

ADDR.: Budecska 6, Praha 2 Vinohrady, Czechoslovakia – **Te.:** 253017. Dir.: B. Šternberk.

OMA 50 kc 5 kW: 24 h – OMA 2500 kc 1 kW: 24 h – OLB5 3170 kc 8 kW D. 17.00–05.00 on all frequencies. OLD2 18985 kc 8 kW. Direction to Far East.

ANN.: In morse-code – V. by letter. Rep. wanted to OMA standard frequency st.

NATIONAL RESEARCH CENTRE OF TELECOMMUNICATIONS

ADDR.: Centre National d'Etudes des Télécommunications, Laboratoire de Bagneux, 196, rue de Paris, Bagneux (Seine), France.

FFH: 2500 kc 0.25 kW: Tues & Fri 08.30–16.30.

REP. OBSERVATORY-SOUTH AFRICA (Go.)

ADDR.: Republic Observatory, Johannesburg. Tel. 43–2026. **Cable:** Astronomer – **L.P.:** Dr. W. S. Finsen.

Stations: Call ZUO. Olifantsfontein 5000 kc 4 kW – Johannesburg 10000 kc o.25 kW – Johannesburg 100 Mc 0.050 kW Directional. 24 h per day, exc. for interruptions 15 to 25 min. past each h.

Time Signals: Continuous second pulses, consisting of 5 cycles of 1000 c/s tone. The minute pulse is prolonged to about 1/2 second –

ANN.: In morse code every 15 min.s (just before each quarter hour: ZUO, ZUO, ZUO followed by the Universal time of the next minute – V. by letter will be answered if they are genuine reports – **PUB.:** Monthly bulletin of Time and Frequency correction.

RWM, MOSCOW, USSR

ADDR.: Ministere des Comm. postales et electriques, Moscow.

STATIONS: All 20 kW: 5000 kc 05.00–08.00, 17.00–06.00 – 10000 kc 13.00–16.00 – 15000 kc 01.00–04.00, 08.30–13.06.

ATA, NEW DELHI, INDIA

ADDR.: National Physical Laboratory, New Delhi.

STATION: 10000 kc 2 kW. Mo-Fri 05.30–10.30.

BPV, PEKING, CHINA

ADDR.: BPV, Peking.

STATIONS: 5000 – 10000 – 15000 kc 24 hours daily.

IAM, ROME, ITALY

ADDR.: Instituto Superiore. Ministero P. T., Rome

STATION: 5000 kc 1 kW – All days exc. Sun 07.30–08.30.

IBF, TURIN, ITALY

ADDR.: Instituto Electrotecnico, Nazionale, Corso Massimo d'Azeglio, Turin.

STATION: 5000 kc 0.3 kW. W.: 07.00–07.30, 11.00–11.30.

ZLFS, LOWER HUTT, NEW ZEALAND

ADDR.: Dominion Physical Laboratory, Lower Hutt, Wellington C 1.

STATION: 2500 kc 0.3 kW: CW only – Tuesdays 01.00–04.00.

DCF77, MAINFLINGEN, GERMANY

ADDR.: Physikalisch-Technische Bundesanstalt, Braunschweig, Fed. Republic of Germany.

STATION: 77.5 kc 12 kW. Daily transmission extends essentially from 07.45–12.45 and 19.45–20.45

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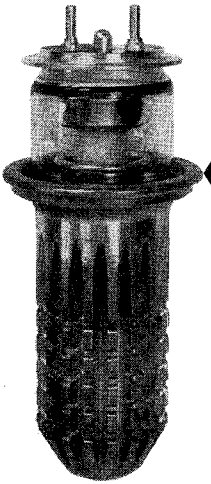

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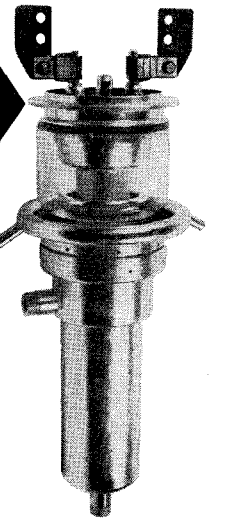
up to 145 kW output power



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up to 145 kW output power

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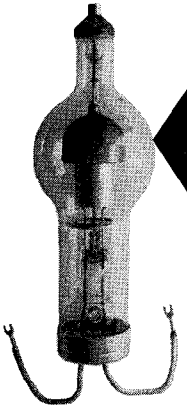

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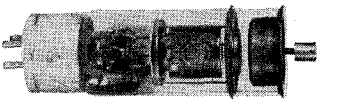

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DX-PROGRAMMES

All prgr's in English exc. where indicated.
AUSTRALIA: "R. Australia": "Australian DX'ers calling". Sat 22.00, Sun 05.30, 07.15 (25/3–27/10), 09.00 (29/10–24/3), 16.00, Mo. 02.15.
BULGARIA: "R. Sofia": Fri 21.30. 1st Sun of the month in German prgr. at 20.00–20.55.
CZECHOSLOVAKIA: "R. Praha": 1st Mo 19.00–19.30 "Around the World".
DENMARK: "Voice of Denmark": Tues 19.20, 20.35, Wed 02.20, 03.50, Thurs 09.50, 15.20.
FINLAND: "Finnish Broadcasting Co.": DX-Prgr. 1st and 3rd Fri of the month 16.00, 20.30 (Sept.-May). 1st & 3rd Sat of the month 11.30 (May-Sept.).
ECUADOR: HCJB: "Dx Party Line" 1st Tues 02.00 for No. Am.
GERMANY: "Deutsche Welle": 2nd Mo/Tues of the month 08.00, 11.00, 14.00, 17.15, 18.30, 20.30, 23.45, 01.15, 03.00, 04.15 – **"R. Berlin International"**: 1st Mo of the month at 17.00 (Swedish).
GR. BRITAIN: B.B.C.: "Shortwave listeners corner". Wed 00.30, 12.15. Thurs 15.45. Sun 06.45 (Pacific Service).
HAITI: Radio 4 VEH: "DX-Corner" Sat 03.00–03.30.
HOLLAND: "R. Nederland": "DX Juke Box" Thurs 07.12, 14.12, 19.42, 21.42, Fri 01.42.
HUNGARY: "R. Budapest": "Calling Radio Amateurs". Tues 20.00– for Europe, Wed 00.00 for No. Am.
JAPAN: "R. Japan": "DX-News" (in Listeners' Corner) Every 4th Sat/Sun at 15.05, 15.50, 18.15, 19.10, 00.05, 03.45, 06.00, 08.20, 10.10, 13.15 – **"Nihon Shortwave Broadcasting Co."** "DX-News" Sun 09.25–09.40, Tues, Fri 07.15 (Japanese only).
NEW ZEALAND: "R. New Zealand": "This Radio Age" 1st Wed 06.40, 10.30+following Sun 00.40.
NIGERIA: "R. Nigeria" (NBC): Mo 18.30.
PHILIPPINES: FEBC: "Shortwave mailbag". Mo 07.45, 15.00.
POLAND: "Polskie Radio": 2nd Fri 18.30 and every following Mo 21.30, Thurs 17.30 in Swedish.
RUMANIA: "R. Bucharest": 2nd and 4th Fri of the month 19.00, 22.30.
SWEDEN: "R. Sweden": "Sweden calling DX'ers". Mo at 12.30, 14.00, 14.45, 16.15, 17.45, 19.45, 20.30, 23.30, Tues 01.45, 03.15, as last part of English half hour. Every Wed in the German broadcast. Also in Spanish (once weekly) and Portuguese (Wed).
SWITZERLAND: "Swiss Shortwave Service": "DX Corner". Every Fri/Sat (in all English transmissions): 07.30, 09.30, 13.15, 15.15, 17.15, 19.15, 02.00, 04.45.
USA: "W.R.U.L.": Sat 18.30 – **"V.O.A."**: "Radio Amateurs' Notebook". Sun 07.30 (for Europe), 08.15 (for Austr. & N. Z.), 08.45 (for Asia), Sun 22.30 (for Europe), Mo 03.30 (for So. Am.).
U.S.S.R.: "R. Moscow": "DX Club" Mo 00.15 for No. Am.

ESPERANTO

AUSTRIA: Österreichischer Rundfunk: Tues 16.50 (2nd Prgr.).
BULGARIA: R. Sofia: Sun 19.00, 23.30.
FRANCE: R. diff. Télévision Française: Thurs 08.37 (Prgr. National-France III).
HOLLAND: First Mo of the month 22.40 (Hilversum I or II): Every Fri 22.00 (Hilversum I or II).
ITALY: R. Roma: Tues, Wed, Fri 17.55.
POLAND: Polskie Radio: D 15.30.
SWITZERLAND: Swiss Short Wave Service: Mo, Wed 12.20; Thurs, Sat 21.15.

O. I. R. T.

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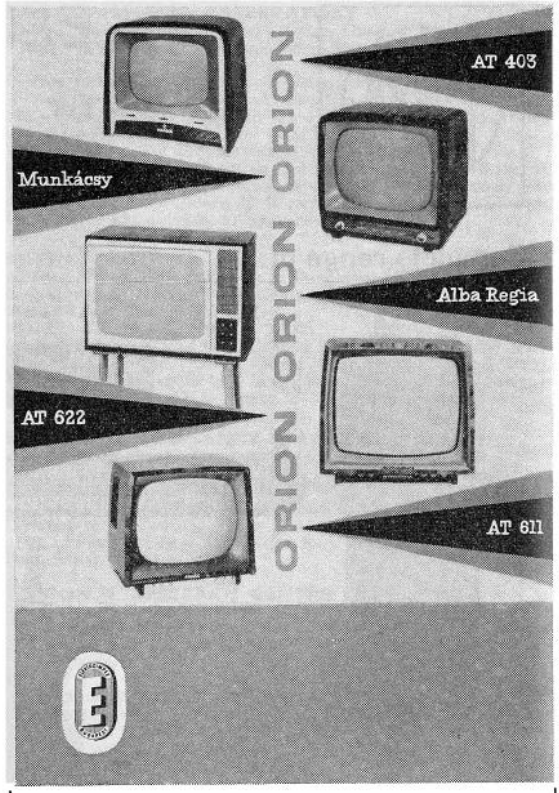

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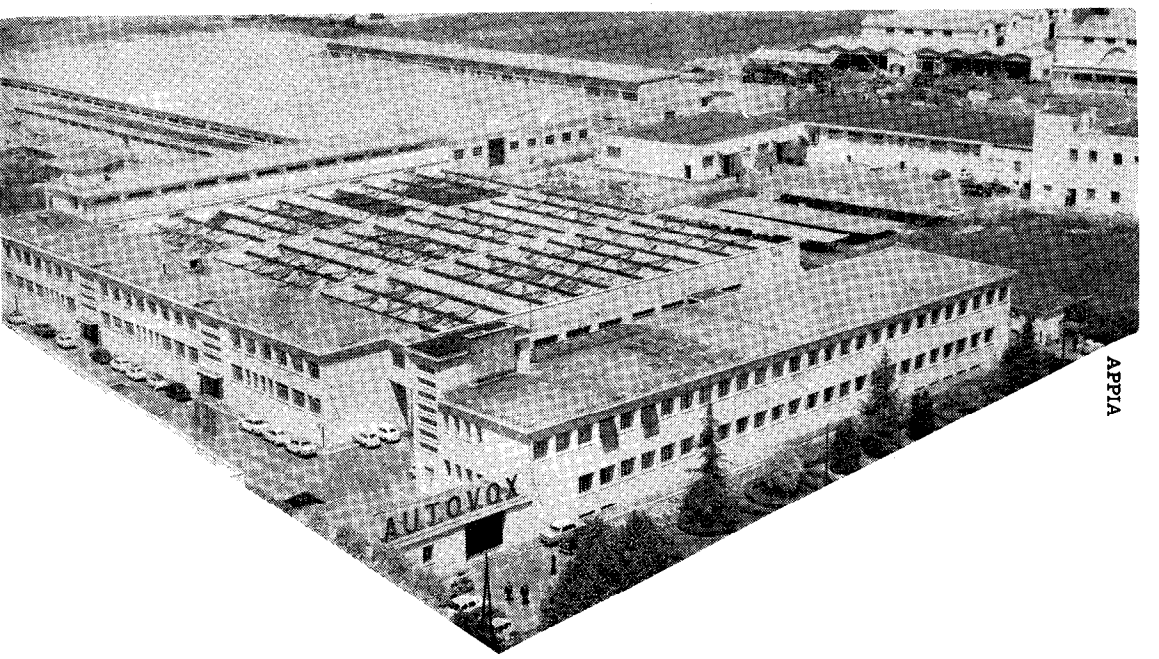

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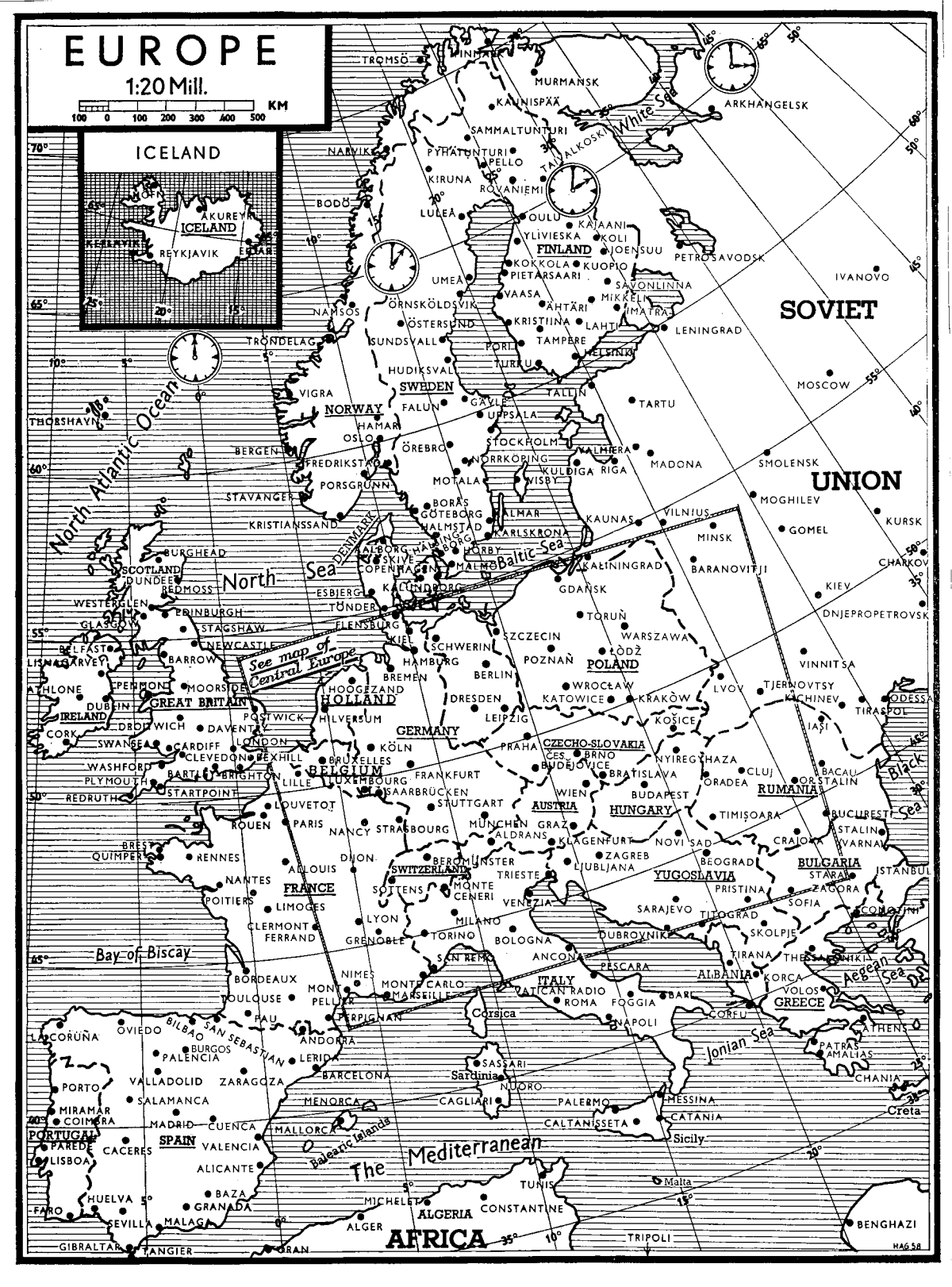
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REYKJAVIK
SOVIET
UNION
North Atlantic Ocean
North Sea
Baltic Sea
White Sea
Black Sea
Aegean Sea
Ionian Sea
Bay of Biscay
The Mediterranean
Balearic Islands
AFRICA
See map of Central Europe
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MURMANSK
KAUNISPÄÄ
ARKHANGELSK
SAMMALTUNTURI
NARVIK
PYHÄTUNTURI
PELLO
KIRUNA
ROVANIEMI
BODÖ
LULEÅ
OULU
KAJAANI
YLIVIESKA
KOLI
FINLAND
JOENSUU
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KUOPIO
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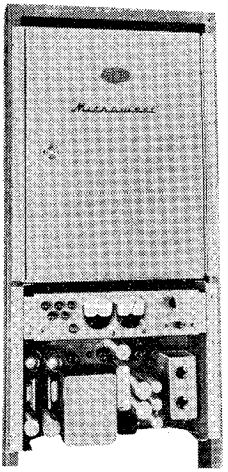
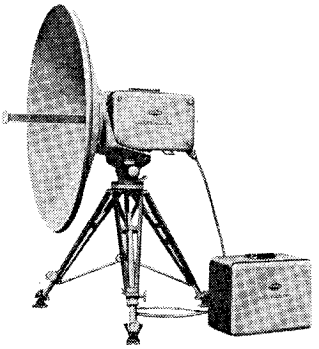




RAYTHEON MICROWAVE RELAY SYSTEMS

Raytheon's complete line of wideband microwave relay equipment provides point-to-point FM transmission of high quality, black and white or color television signals and program audio, wideband data or message circuits. Designed for power outputs of 0.1 watt to 1 watt, in the frequency bands of 5925 Mc to 7450 Mc and 10,700 Mc to 12,700 Mc, Raytheon units offer maximum reliability under all field conditions.

Raytheon systems are also supplied in rack mounted styles and in compact luggage-type cases for portable applications. A full line of accessories and auxiliary equipment is available.

Write for FREE Raytheon Microwave System Planning Kit

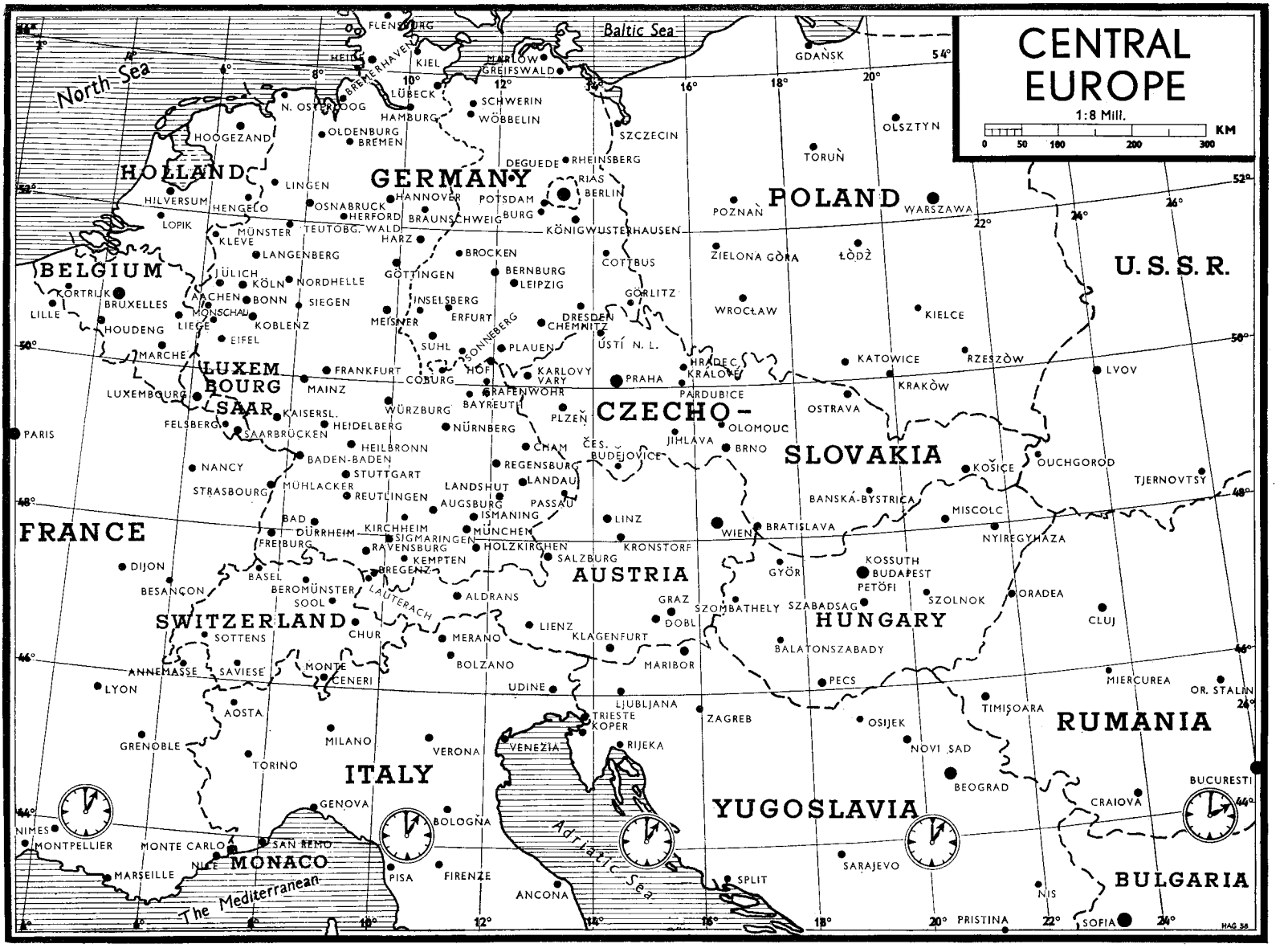
Includes all technical data—together with profile and graph paper and special slide rule—for preparing microwave path surveys and site selection; describes transmission objectives, signal-to-noise factors; provides antenna system calculators, tables for rapid calculation of single-link and multi-hop performance. The Raytheon Microwave System Planning Kit is available, by request on your letter head. Please include your title and function. For your Kit and technical data on Raytheon's complete line of microwave relay systems, write: Raytheon Company, International Sales and Services, Dept. A, Lexington, Massachusetts, U.S.A.

Set Manufacturers:

RAYTHEON TV SET ASSEMBLIES FOR PORTABLES AND CONSOLES

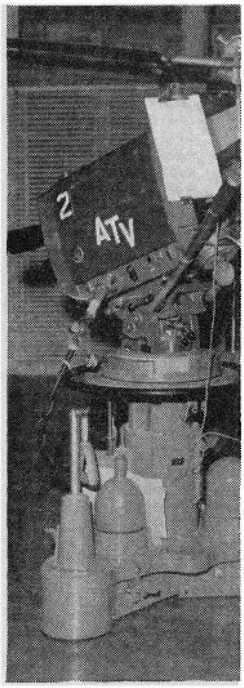
Raytheon offers complete TV Kits, or components and subassemblies in any combination you require for use with locally obtained material to produce 19" and 23" receivers. Features include printed boards, minimum assembly and testing requirements and full engineering assistance. For complete details write: Raytheon Company, International Sales and Services, Dept. A Lexington, Massachusetts, U.S.A.

RAYTHEON

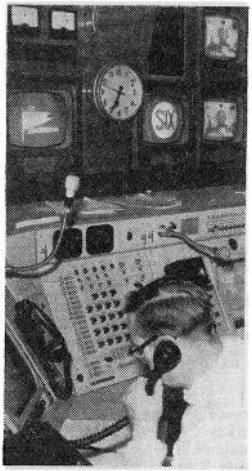

CENTRAL EUROPE
1:8 Mill.
KM
0 50 100 200 300
Baltic Sea
North Sea
The Mediterranean
Adriatic Sea
HOLLAND
GERMANY
POLAND
U.S.S.R.
BELGIUM
LUXEMBOURG
FRANCE
SWITZERLAND
AUSTRIA
CZECHO-SLOVAKIA
HUNGARY
RUMANIA
YUGOSLAVIA
BULGARIA
ITALY
MONACO
FLENSBURG
KIEL
LÜBECK
HAMBURG
BREMEN
OLDENBURG
HOOGEZAND
N. OSTERHOOG
BREMERHAVEN
HEIDE
MARLOW
GREIFSWALD
SCHWERIN
WÖBBELIN
SZCZECIN
GDAŃSK
OLSZTYN
TORUŃ
POZNAŃ
WARSZAWA
ZIELONA GÓRA
ŁÓDŹ
WROCŁAW
KIELCE
KATOWICE
RZESZÓW
LVOV
KRAKÓW
OSTRAVA
PARDUBICE
HRADEC KRÁLOVÉ
PRAHA
OLOMOUC
BRNO
JIHLAVA
ČES. BUDĚJOVICE
PLZEŇ
ÚSTÍ N. L.
DRESDEN
CHEMNITZ
GÖRLITZ
COTTBUS
BERLIN
POTSDAM
RHEINSBERG
DEGUEDE
RIAS
KÖNIGWUSTERHAUSEN
BRAUNSCHWEIG
HANNOVER
HARZ
BROCKEN
BERNBURG
LEIPZIG
GÖTTINGEN
INSELSBERG
ERFURT
MEISSNER
SUHL
PLAUEN
HOF
KARLOVY VARY
CHAM
REGENSBURG
LANDAU
PASSAU
LINZ
BRATISLAVA
WIEN
NYIREGYHAZA
MISCOLC
BANSKÁ-BYSTRICA
KOŠICE
OUCHGOROD
TJERNOVTSY
SZOLNOK
ORADEA
CLUJ
TIMIŞOARA
OR. STALIN
MIERCUREA
BUCUREŞTI
CRAIOVA
GYÖR
KOSSUTH
BUDAPEST
PETÖFI
SZOMBATHELY
SZABADSAG
GRAZ
DOBL
KRONSTORF
SALZBURG
KLAGENFURT
LIENZ
MARIBOR
PECS
BALATONSZABADY
ZAGREB
OSIJEK
NOVI SAD
BEOGRAD
SARAJEVO
SPLIT
RIJEKA
TRIESTE
KOPER
LJUBLJANA
UDINE
VENEZIA
VERONA
MILANO
TORINO
GENOVA
BOLOGNA
PISA
FIRENZE
ANCONA
NIS
PRISTINA
SOFIA
BOLZANO
MERANO
ALDRANS
LANDSHUT
AUGSBURG
ISMANING
MÜNCHEN
HOLZKIRCHEN
KEMPTEN
BREGENZ
RAVENSBURG
SIGMARINGEN
KIRCHHEIM
DÜRRHEIM
FREIBURG
BAD
REUTLINGEN
STUTTGART
BADEN-BADEN
HEILBRONN
NÜRNBERG
WÜRZBURG
BAYREUTH
GRAFENWÖHR
COBURG
MAINZ
FRANKFURT
KOBLENZ
EIFEL
MONSCHAU
AACHEN
BONN
SIEGEN
KÖLN
NORDHELLE
JÜLICH
LANGENBERG
KLEVE
MÜNSTER
TEUTOBG. WALD
LOPIK
HILVERSUM
HENGELO
OSNABRUCK
HERFORD
LINGEN
KORTRIJK
BRUXELLES
LILLE
HOUDENG
LIEGE
MARCHE
LUXEMBOURG
SAARBRÜCKEN
KAISERSL.
SAAR
FELSBERG
HEIDELBERG
MÜHLACKER
STRASBOURG
NANCY
PARIS
DIJON
BESANÇON
BASEL
BEROMÜNSTER
SOOL
LAUTERACH
CHUR
SOTTENS
SAVIESE
ANNEMASSE
MONTE CENERI
LYON
AOSTA
GRENOBLE
NIMES
MONTPELLIER
MONTE CARLO
SAN REMO
NICE
MARSEILLE
SOUTH
ZIENA
BRUNSWICK
SONNEBERG
HRADEC KRÁLOVÉ
ČES. BUDĚJOVICE
BANSKÁ-BYSTRICA
SZOMBATHELY
SZABADSAG
KOSSUTH
BUDAPEST
PETÖFI
BALATONSZABADY
MIERCUREA
OR. STALIN
BUCUREŞTI
CRAIOVA
TIMIŞOARA
NOVI SAD
BEOGRAD
SARAJEVO
SPLIT
NIS
PRISTINA
SOFIA
HAG 58

COMPREHENSIVE TELEVISION PRODUCTION AND TRANSMISSION EQUIPMENT

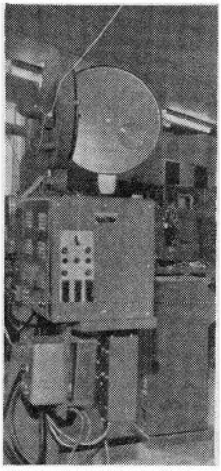
STUDIO CAMERAS



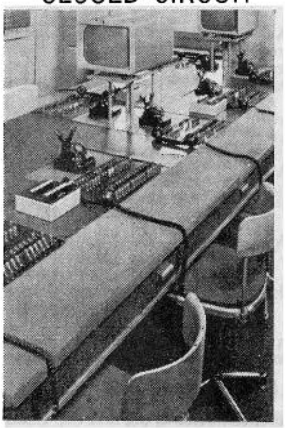
CONTROL



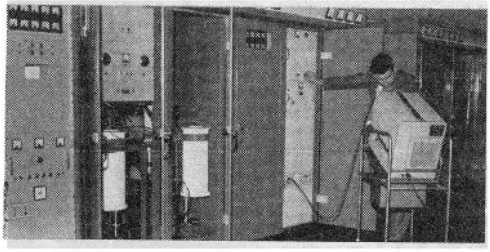
TELECINE

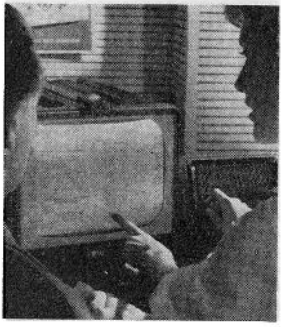


CLOSED CIRCUIT



TRANSMISSION





With a distinguished history dating from 1930, when the nucleus of the television equipment development organisation was established, Pye are now one of the largest manufacturers of production and transmission equipment, covering every aspect of television station activities. Within the video field a comprehensive range includes studio and field cameras and ancilliary gear, waveform and synchronising generators, mixing, monitoring and distribution equipment, telecine, montage and special effects devices and complete control systems. For outside broadcast purposes Pye provide a variety of mobile control rooms, and are the principal suppliers of mobile equipment to British and overseas services. In the transmission field, too, they have equipped many of the world's leading networks, supplying additionally all necessary test gear and radiating equipment. A large scale station planning service has been operating very successfully for many years. Finally, in the field of closed-circuit television for industrial, commercial and official users, in which they were pioneers, Pye have been responsible for many of the world's most important installations.

PYE TVT LTD. are able to pass on to users of their equipment the benefits of their participation in the Pye Group of Companies whose overall resources in scientific knowledge, technology, engineering experience and specialisation bring to the optical, electronic and mechanical components of their equipment the highest standards of quality.

PYE TVT LTD COMPLETE TELEVISION EQUIPMENT

PYE T.V.T. LIMITED · · CAMBRIDGE · · ENGLAND

FREQUENCY BANDS ALLOCATED TO BROADCASTING, TELEVISION AND AMATEURS

The table is based upon the Geneva Regulations 1959. Some bands are shared with other services. In certain countries receptions from the table below apply. **Region 1:** Europe, U.S.S.R. in Asia, Africa. **Region 2:** N. and S. America, Northeast Pacific. **Region 3:** Asia exc. U.S.S.R., Australia, N. Zealand, part of Pacific.

Abbreviations:
BC: Broadcasting (AM sound) – BC (trop): Broadcasting (AM sound tropical zones) – BC (FM): Broadcasting (FM sound) – BC (TV): Broadcasting (Television) – AMAT: Amateurs.

	Region 1 kc	Region 2 kc	Region 3 kc
BC	150–285		
BC	525–1605	525–1605	525–1605
AMAT		1800–2000	1800–2000
BC(trop)	2300–2498	2300–2495	2300–2495
BC(trop)	3200–3400	3200–3400	3200–3400
AMAT	3500–3800	3500–4000	3500–3800
BC	3950–4000		3900–4000
BC(trop)	4750–4995	4750–4995	4750–4995
BC(trop)	5005–5060	5005–5060	5005–5060
BC	5950–6200	5950–6200	5950–6200
AMAT	7000–7100	7000–7300	7000–7100
BC	7100–7300		7100–7300
BC	9500–9775	9500–9775	9500–9775
BC	11700–11975	11700–11975	11700–11975
AMAT	14000–14350	14000–14350	14000–14350
BC	15100–15450	15100–15450	15100–15450
BC	17700–17900	17700–17900	17700–17900
AMAT	21000–21450	21000–21450	21000–21450
BC	21450–21750	21450–21750	21450–21750
BC	25600–26100	25600–26100	25600–26100
AMAT	28000–29700	28000–29700	28000–29700

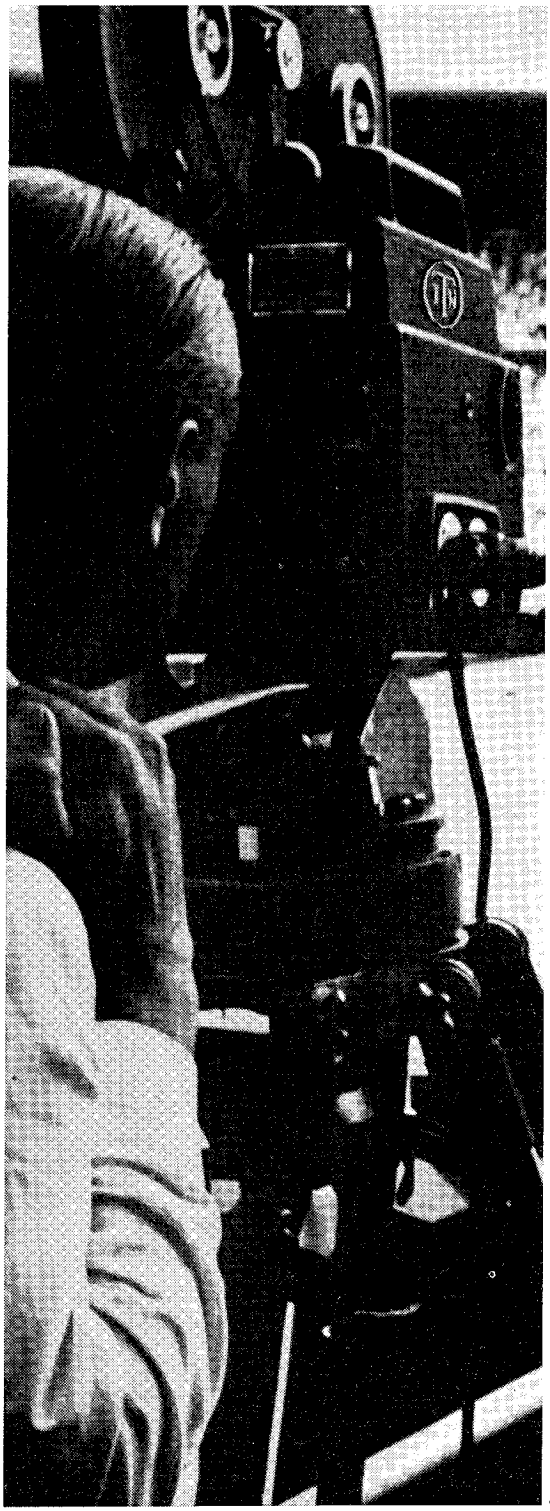
	Region 1 Mc West	Region 1 Mc East	Region 2 Mc	Region 3 Mc
BC(TV)	41–68	41–66		44–50
AMAT			50–54	50–54
BC(TV)			54–72	54–68
BC(TV)			76–88	
BC(FM)	87.5–100	66–73	88–108	87–108
BC(TV)		76–100		
AMAT	144–146		144–148	144–148
BC(TV)	174–216		174–216	170–216
AMAT			220–225	
AMAT	430–440		420–450	420–450
BC(TV)	470–960		470–890	470–585
BC(TV)				610–960
AMAT	1215–1300		1215–1300	1215–1300
AMAT	2300–2450		2300–2450	2300–2450
AMAT			3300–3500	3300–3500
AMAT	5650–5850		5650–5925	5650–5850
AMAT	10000–10500		10000–10500	10000–10500
BC	11700–12700		11700–12700	11700–12700
AMAT	21000–22000		21000–22000	21000–22000

TABLE OF ALLOCATION OF CALL SIGNS

The first character of the first two characters of a call sign indicates the nationality of the station using it.

AAA-ALZ U.S.A.
AMA-AOZ Spain
APA-ASZ Pakistan
ATA-AWZ India
AXA-AXZ Australia
AYA-AZZ Argentina
BAA-BZZ China
CAA-CEZ Chile
CFA-CKZ Canada
CLA-CMZ Cuba
CNA-CNZ Morocco
COA-COZ Cuba
CPA-CPZ Bolivia
CQA-CRZ Portug. Col.
CSA-CUZ Portugal
CVA-CXZ Uruguay
CYA-CZZ Canada
DAA-DTZ Germany
DUA-DZZ Philippines
EAA-EHZ Spain
EIA-EJZ Ireland
EKA-EKZ U.S.S.R.
ELA-ELZ Liberia
EMA-EOZ U.S.S.R.
EPA-EQZ Iran
ERA-ERZ U.S.S.R.
ESA-ESZ Estonia
ETA-ETZ Ethiopia
EUA-EWZ Bielorussia
EXA-EZZ U.S.S.R.
FAA-FZZ France
GAA-GZZ Un. Kingd.
HAA-HAZ Hungary
HBA-HBZ Switzerland
HCA-HDZ Ecuador
HEA-HEZ Switzerland
HFA-HFZ Poland
HGA-HGZ Hungary
HHA-HHZ Haiti
HIA-HIZ Domin. Rep.
HJA-HKZ Colombia
HLA-HMZ Korea
HNA-HNZ Iraq
HOA-HPZ Panama
HQA-HRZ Honduras
HSA-HSZ Thailand
HTA-HTZ Nicaragua
HUA-HUZ El Salvador
HVA-HVZ Vatican City
HWA-HYZ France
HZA-HZZ Saudi Arabia
IAA-IZZ Italy
JAA-JSZ Japan
JTA-JVZ Mongol. P.R.
JWA-JXZ Norway
JYA-JYZ Jordan
JZA-JZZ N. Guinea
KAA-KZZ U.S.A.
LAA-LNZ Norway
LOA-LWZ Argentina
LXA-LXZ Luxembourg
LYA-LYZ Lithuania
LZA-LZZ Bulgaria
MAA-MZZ Un. Kingd.
NAA-NZZ U.S.A.
OAA-OCZ Peru
ODA-ODZ Lebanon
OEA-OEZ Austria
OFA-OJZ Finland
OKA-OMZ Czechoslov.
ONA-OTZ Belgium
OUA-OZZ Denmark
PAA-PIZ Netherlands
PJA-PJZ Neth. Antilles
PKA-POZ Indonesia
PPA-PYZ Brazil
PZA-PZZ Surinam
QAA-QZZ (abbreviat.)
RAA-RZZ U.S.S.R.
SAA-SMZ Sweden
SNA-SRZ Poland
SSA-SSM Egypt
SSN-STZ Sudan
SUA-SUZ Egypt
SVA-SZZ Greece
TAA-TCZ Turkey
TDA-TDZ Guatemala
TEA-TEZ Costa Rica
TFA-TFZ Iceland
TGA-TGZ Guatemala
THA-THZ France
TIA-TIZ Costa Rica
TJA-TJZ[1] Cameroon
TKA-TKZ France
TLA-TLZ[1] C. African
TMA-TMZ France
TNA-TNZ[1] Brazzav.
TOA-TQZ France
TRA-TRZ[1] Gabon
TSA-TSM Tunisia
TSN-TSZ[1] Tunisia
TTA-TTZ[1] Chad
TUA-TUZ[1] Ivory Coast
TVA-TXZ France
TYA-TYZ[1] Dahomey
TZA-TZZ[1] Mali
UAA-UQZ U.S.S.R.
URA-UTZ Ukrainian U.S.S.R.
UUA-UZZ U.S.S.R.
VAA-VGZ Canada
VHA-VNZ Australia
VOA-VOZ Canada
VPA-VSZ Br. Colonies
VTA-VWZ India
VXA-VYZ Canada
VZA-VZZ Australia
WAA-WZZ U.S.A.
XAA-XIZ Mexico
XJA-XOZ Canada
XPA-XPZ Denmark
XQA-XRZ Chile
XSA-XSZ China
XTA-XTZ[1] Upper Volta
XUA-XUZ Cambodia
XVA-XVZ Vietnam
XWA-XWZ Laos
XXA-XXZ Port. Col.
XYA-XZZ Burma
YAA-YAZ Afghanistan
YBA-YHZ Indonesia
YIA-YIZ Iraq
YJA-YJZ N. Hebrides
YKA-YKZ Syrian Rep.
YLA-YLZ Latvia
YMA-YMZ Turkey
YNA-YNZ Nicaragua
YOA-YRZ Roumania
YSA-YSZ El Salvador
YTA-YUZ Yugoslavia
YVA-YYZ Venezuela
YZA-YZZ Yugoslavia
ZAA-ZAZ Albania
ZBA-ZJZ British Col.
ZKA-ZMZ New Zealand
ZNA-ZOZ British Col.
ZPA-ZPZ Paraguay
ZQA-ZQZ British Col.
ZRA-ZUZ S. Africa
ZVA-ZZZ Brazil
2AA-2ZZ Un. Kingd.
3AA-3AZ Monaco
3BA-3FZ Canada
3GA-3GZ Chile
3HA-3UZ China
3VA-3VZ Tunisia
3WA-3WZ Vietnam
3XA-3XZ Guinea
3YA-3YZ Norway
3ZA-3ZZ Poland
4AA-4CZ Mexico
4DA-4IZ Philippines
4JA-4LZ U.S.S.R.
4MA-4MZ Venezuela
4NA-4OZ Yugoslavia
4PA-4SZ Ceylon
4TA-4TZ Peru
4UA-4UZ Un. Nations
4VA-4VZ Haiti
4WA-4WZ Yemen
4XA-4XZ Israel
4YA-4YZ Civil Aviation
4ZA-4ZZ Israel
5AA-5AZ Libya
5BA-5BZ[1] Cyprus
5CA-5GZ Morocco
5HA-5IZ Tanganyika
5JA-5KZ Colombia
5LA-5MZ Liberia
5NA-5OZ[1] Nigeria
5PA-5QZ Denmark
5RA-5SZ Malagasy R.
5TA-5TZ[1] Mauritania
5UA-5UZ[1] Niger
5VA-5VZ Togolese R.
5WA-5WZ[1] W. Samoa
5XA-5XZ[1] Uganda
6AA-6BZ Egypt
6CA-6CZ Syrian R.
6DA-6JZ Mexico
6KA-6NZ Korea
6OA-6OZ Somali R.
6PA-6SZ Pakistan
6TA-6UZ Sudan
6VA-6WZ[1] Senegal
6XA-6XZ Malagasy R.
7AA-7IZ Indonesia
7JA-7NZ Japan
7SA-7SZ Sweden
7ZA-7ZZ Saudi Arab.
8AA-8IZ Indonesia
8JA-8NZ Japan
8SA-8SZ Sweden
8TA-8YZ India
8ZA-8ZZ Saudi Arabia
9AA-9AZ San Marino
9BA-9DZ Iran
9EA-9FZ Ethiopia
9GA-9GZ Ghana
9KA-9KZ Kuwait
9LA-9LZ Sierra Leone
9MA-9MZ Malaya Fed.
9NA-9NZ Nepal
9OA-9TZ Leopoldv.
9UA-9UZ Burundi, Rwanda

[1]) **Provisionally**



WHO IS COVERING TODAY'S BIG NEWS STORY ON FILM?

* ITN IS.

* ITN's understanding of the requirements of television is unsurpassed, because ITN is the newsfilm agency that also produces its own television news bulletin.

* ITN works jointly with CBS of New York to get full coverage of world events.

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INDEPENDENT TELEVISION NEWS

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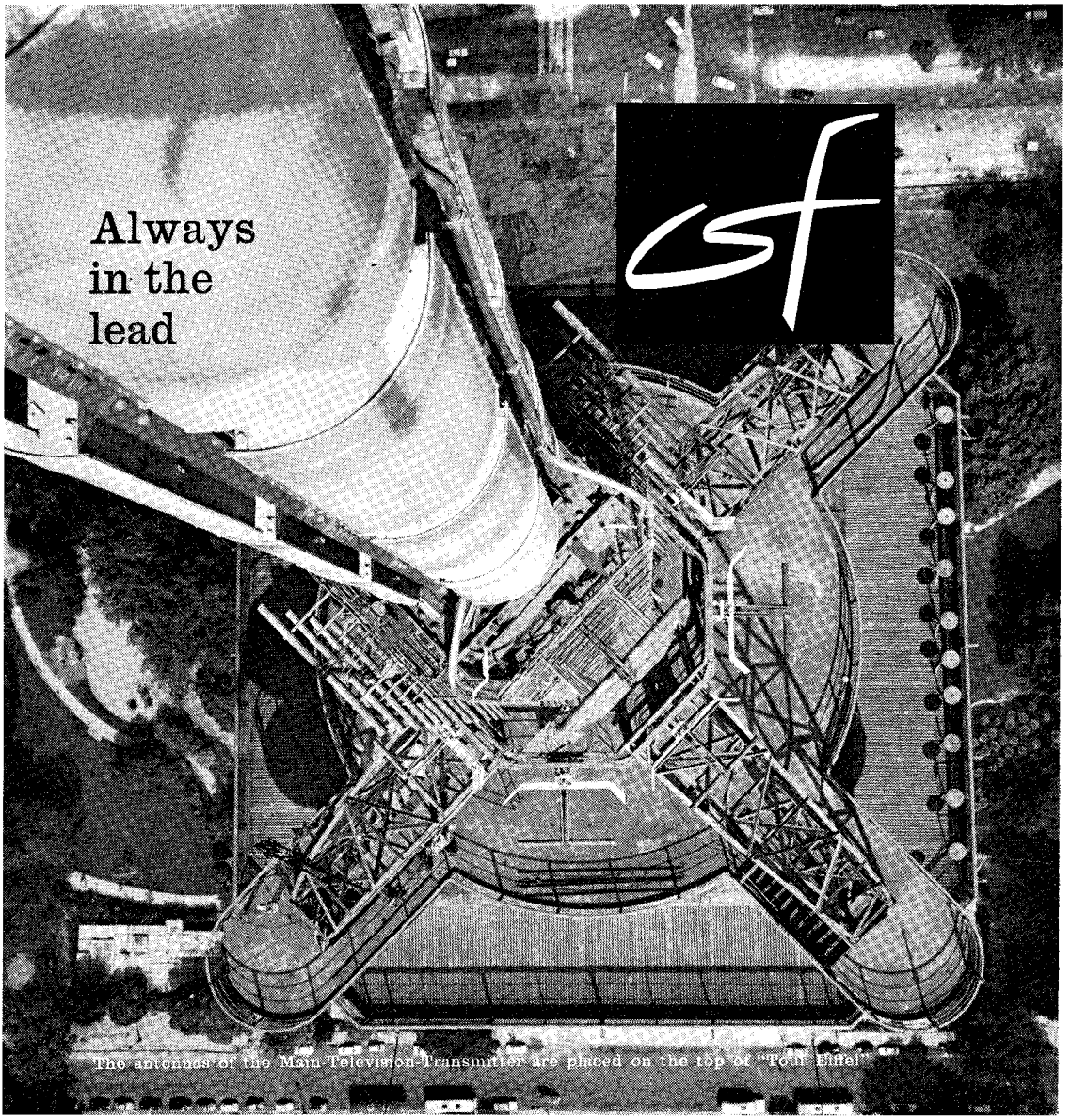
Cables: Telindep, London WC2
Telex: 2/2101
Telephone: HOLborn 7690

NUMBER OF RADIO AND TV-RECEIVERS in use in each country

Country	Po.	R. Rcvrs.	TV. Rcvrs.
Aden	200.000	30.000	–
Afghanistan	12.000.000	23.800	–
Albania	1.625.000	66.000	–
Algeria	10.000.000	673.000	60.000
Andorra	12.457	3.000	–
Angola	4.832.677	57.945	–
Argentina	20.800.945	5.000.000	850.000
Australia	10.552.276	2.217.163	1.375.001
Austria	7.073.807	2.150.832	342.432
Azores	350.000	5.059	–
Bahamas	120.000	30.000	–
Bahrain	150.000	20.000	–
Barbados	245.000	*42.000	–
Bechuanaland	336.000	2.500	–
Belgium	9.250.000	2.898.000	924.034
Bermuda	45.000	20.000	10.000
Bolivia	4.000.000	350.000	–
Borneo North	454.328	18.784	–
Brazil	70.000.000	7.000.000	1.400.000
Brunei	83.877	6.000	–
Bulgaria	8.000.000	1.707.000	25.000
Burma	19.000.000	128.628	–
Burundi	2.200.000	75.000	–
Cambodia	5.000.000	132.000	400
Cameroon	3.500.000	100.000	–
Canada	18.500.000	9.200.000	4.127.000
Canary Islands	900.000	100.000	–
Cape Verde Islands	182.000	5.500	–
Central African Rep.	1.200.000	5.000	–
Ceylon	10.157.000	*400.000	–
Chile	8.000.000	850.000	20.000
Colombia	15.000.000	3.000.000	205.000
Comores Islands	183.000	2.000	–
Congo (Franco-African)	4.830.000	20.000	–
Congo Rep.	14.000.000	175.000	–
Costa Rica	1.262.600	75.000	7.500
Cuba	6.912.000	1.200.000	520.000
Cyprus	580.000	125.000	4.500
Czechoslovakia	13.800.000	3.654.525	1.300.000
Dahomey	2.000.000	25.000	–
Denmark	4.585.256	689.746	804.508
Dominican Rep.	3.015.125	107.981	19.015
Ecuador	4.552.000	320.000	5.000
El Salvador	2.501.278	335.000	25.000
Ethiopia	20.000.000	305.000	–
Faroe Isl.	35.000	8.000	–
Fiji Islands	401.000	30.000	–
Finland	4.484.655	1.290.448	190.132
France	45.728.700	10.378.989	3.196.844
Gabon	600.000	25.000	–
Germany, Fed. Rep.	56.745.700	16.521.958	6.642.742
Germany, Dem. Rep.	17.079.306	5.602.300	1.564.389
Ghana	7.000.000	250.000	100
Gibraltar	25.000	4.697	1.000
Great Britain	52.675.000	15.560.257	12.057.318
Greece	8.388.600	900.000	–
Greenland	40.000	5.500	–
Guadeloupe	250.000	6.500	–
Guatemala	3.800.000	45.000	41.000
Guiana, British	500.070	* 80.000	–
Guiana, French	35.000	962	–
Guinea, Rep.	3.500.000	35.000	–
Guinea, Portug.	548.000	1.900	–
Guinea, Spanish	211.000	1.700	–
Haiti	3.500.000	50.000	4.700
Hawaii	634.000	460.000	157.000
Holland	11.732.000	3.067.064	1.122.311
Honduras, Brit.	90.000	5.000	–
Honduras, Rep.	2.000.000	125.000	5.000
Hong Kong	3.133.131	*300.000	12.000
Hungary	10.000.000	2.210.000	250.000
Iceland	177.000	50.852	–
India	439.000.000	2.245.548	1.000
Indonesia	92.000.000	1.250.000	–
Iran	20.890.042	1.235.000	75.000
Iraq	7.000.000	600.000	50.000
Ireland	2.834.000	511.026	106.451
Israel	2.200.000	469.014	–
Italy	51.000.000	8.864.610	3.307.911
Ivory Coast	3.300.000	170.000	–
Jamaica	1.650.000	*210.000	–
Japan	94.930.000	17.716.987	10.006.452

Country	Po.	R. Rcvrs.	TV. Rcvrs.
Jordan	1.752.095	195.000	–
Kenya	7.289.000	57.000	9.500
Korea Rep.	24.994.117	1.262.000	27.000
Kuwait	321.621	80.000	16.000
Laos	4.000.000	20.000	–
Lebanon	1.626.000	85.000	55.000
Liberia	2.000.000	*70.000	–
Libya	1.500.000	40.000	–
Luxembourg	314.889	101.991	10.795
Macau	180.000	10.000	–
Madagascar	5.800.000	120.000	–
Malaya (Feder. of)	7.500.000	*400.000	–
Mali	4.500.000	100.000	–
Malta	329.600	*65.000	9.000
Marianas Isl.	100.000	63.000	42.000
Martinique	280.000	16.000	–
Mauritania	750.000	10.000	–
Mauritius	667.246	47.120	–
Mexico	36.900.000	4.600.000	580.000
Monaco	28.000	6.000	12.100
Morocco	10.000.000	575.000	5.000
Mozambique	6.500.000	27.117	–
Netherl. Ant.	193.000	75.000	10.500
New Caledonia	75.000	12.000	–
New Guinea (West)	765.000	30.000	–
New Zealand	2.477.397	601.674	41.008
Nicaragua	1.551.688	100.000	6.700
Niger	2.850.000	10.000	–
Nigeria	45.000.000	*450.000	40.000
Norway	3.600.000	1.016.000	160.000
Pakistan	93.801.556	280.000	–
Panama	1.067.766	225.000	25.000
Paraguay	1.700.000	105.000	–
Peoples Rep. of China	650.000.000	7.000.000	50.000
Peru	11.000.000	2.000.000	120.000
Philippines	27.450.000	1.200.000	47.600
Poland	30.226.900	5.577.503	818.606
Portugal	9.000.000	1.316.199	80.312
Puerto Rico	2.318.000	1.410.000	200.000
Reunion	360.000	20.000	–
Rhodesia & Nyasaland	9.270.000	77.500	28.840
Rumania	18.300.000	2.283.000	70.000
Ryukyu Isl.	900.000	210.000	47.137
Samoa	114.000	8.000	–
Sao Tomé	62.000	8.500	–
Sarawak	744.391	36.753	–
Saudia Arabia	6.000.000	25.000	18.000
Senegal	3.100.000	65.000	–
Sierra Leone	3.000.000	51.000	–
Singapore	1.712.000	*200.000	–
Solomon Isl.	124.100	1.400	–
Somaliland, French	75.000	8.000	–
Somali	2.150.000	25.000	–
So. Africa	14.920.000	*1.300.000	–
Spain	30.000.000	3.500.000	400.000
Sudan	11.000.000	135.000	–
Surinam	330.000	45.000	–
Sweden	7.542.459	2.919.221	1.480.835
Switzerland	5.429.000	1.523.354	250.129
Syria	4.200.000	550.000	1.500
Tahiti	80.000	20.000	–
Taiwan	11.211.480	845.469	100
Tanganyika	9.500.000	75.000	–
Tchad	2.600.000	8.000	–
Thailand	24.600.000	255.094	159.260
Trinidad	828.000	*150.000	1.000
Togo	1.500.000	15.000	–
Tonga	64.000	1.500	–
Tunisia	4.000.000	200.000	–
Turkey	27.809.891	1.503.116	1.500
Uganda	6.523.628	92.000	–
United Arab. Rep. (Egypt.)	26.000.000	1.800.000	110.000
United States	186.000.000	180.000.000	57.000.000
Upper Volta	4.000.000	15.000	–
Uruguay	3.100.000	1.050.000	50.000
USSR	216.000.000	60.000.000	6.000.000
Venezuela	7.524.000	742.500	400.000
Vietnam Rep.	14.000.000	300.000	–
Windward Isl.	314.000	32.000	–
Yugoslavia	18.538.150	1.827.077	62.052
Zanzibar	299.111	5.200	–

*) including Rediffusion loudspeakers.



The following 50 kW transmitters are equipped for bands IV and V: Paris "Tour Eiffel", Rouen "Les Essarts", Caen "Mont Pinson", Lyons "Mont Pilat", Clermond-Ferrand "Puy de Dome".

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ABBREVIATIONS:

Addr. = Address
ABC = Australian Broadc. Comm.
AD. = Advertising
Adm. = Administrator
Adv. = Advertisements
Af. = Africa
AFN = American Forces Network
AFRTS = Armed Forces Radio and Television Service
Ag. = Acting
AIR = All India Radio
altern. = alternate
Am. = America
A.M. = Amplitude modulation
Ann. = Announcement
Approx. = Approximately
Apr. = April
Apt. = Apartado
As. = Asia
Asst. = Assistant
Au. = Australia
Aug. = August
Av. = Avenue, Avenida
BBC = British Broadc. Corp.
B.P. = Boîte Postale
BR = Bayerischer Rundfunk
Broadc. = Broadcasting
C = Central
Ca. = Calle
Cas. = Casilla
CBC. = Canadian Broadc. Corp.
Ch = Channel
Ci. = Ciudad
Co. = Congo
Comm. = Commercial
Corp. = Corporation
C.P. = Caixa Postal
c/s = Cycles per second
D. = Daily
d. = Directional aerial
Dec. = December
Def. = Definition
Dept. = Department
Dep. = Deputy
Dir. = Director, Direction
Dir. Gen. = Director General
DX = Long distance
E. = English
Ea. = East
E. by R. = English by Radio
Ed. = Edificio
Emis. = Emissora
Eng. = Engineer
ERP = Effective radiated power
Eu. = Europe
exc. = Except
exp. = Experimental
F. = French
FCC = Federal Communications Commission
F.E. = Far East
Feb. = February
F.I. = Financing
Fi. = Finnish
Fl. = Flemish
F.M. = Frequency modulation
F.Pl. = Future plans
For. Rel. = Foreign Relations
Fri = Friday
Freq. = Frequency
G. = German
G.D.R. = German Democratic Republic
Gen. Mgr. = General Manager
G.M.T. = Greewich Mean Time
Go. = Government
Gr. = Greek
h. = Hour
H. = Horizontal polarisation
Hqs. = Headquarters
I. = Italian
Inf. = Information
Int. = International
Int. Sig. = Interval Signal
Jan. = January
kc = Kilocycles
kW = Kilowatt
L.P. = Leading Personality(ies)
L = Language
L.N. = Local News
L.L. = Language Lessons
L.T. = Local Time
LWF = Lutheran World Federation
Man. = Managing
M.E. = Middle East (Near East)
Mgr. = Manager
Mo = Monday
m.b. = Meter band
Mbg. = Mailbag
M.W. = Medium Wave
N. = News
Nat. = National
Net. = Network
N.E. = Near East
N.H.K. = Nippon Hoso Kyokai
No. = North
Nov. = November
N.Z. = New Zealand
occ. = Occasionally
OCORA = Office de Cooperation Radiophonique
Oct. = October
Org. = Organization
P. = Portuguese
Pa. = Pacific
Per. = Period
Po. = Population
P.R. = Public Relations
Prod. = Production
Pri. = Private
Pr.L. = Principal Languages
Pres. = President
Prgr. = Programme
Pub. = Publication
R. = Radio
Rcvrs. = Number of receivers
Re. = Report
Rdif. = Radiodifusora
Reg. = Regional
Rel. = Relay, Relations
Rep. = Repeat, Repetition
RIAS = Rundfunk in Am. Sector
Rp. = Return postage required
Rus. = Russian
SABC = South African Broadcasting Corporation
Sat = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sep. = September
So. = South
So.We. = South West
Sp. = Spanish, Spain
St. = Station
Str. = Street
Su. = Summer
Sun = Sunday
S.W. = Shortwave
SWF = Südwestfunk
Te. = Telephone
Tec. = Technic
Thurs = Thursday
Tr. = Transmitter, transmission
Tues = Tuesday
T.V. = Television
UAR = United Arabic Republic
USSR = Union of the Soviet Socialist Republics
V. = Vertical polarisation
V. = Verification
VOA = Voice of America
W = Weekdays
We. = West
Wed = Wednesday
Wi. = Winter
Wrp. = Weather report

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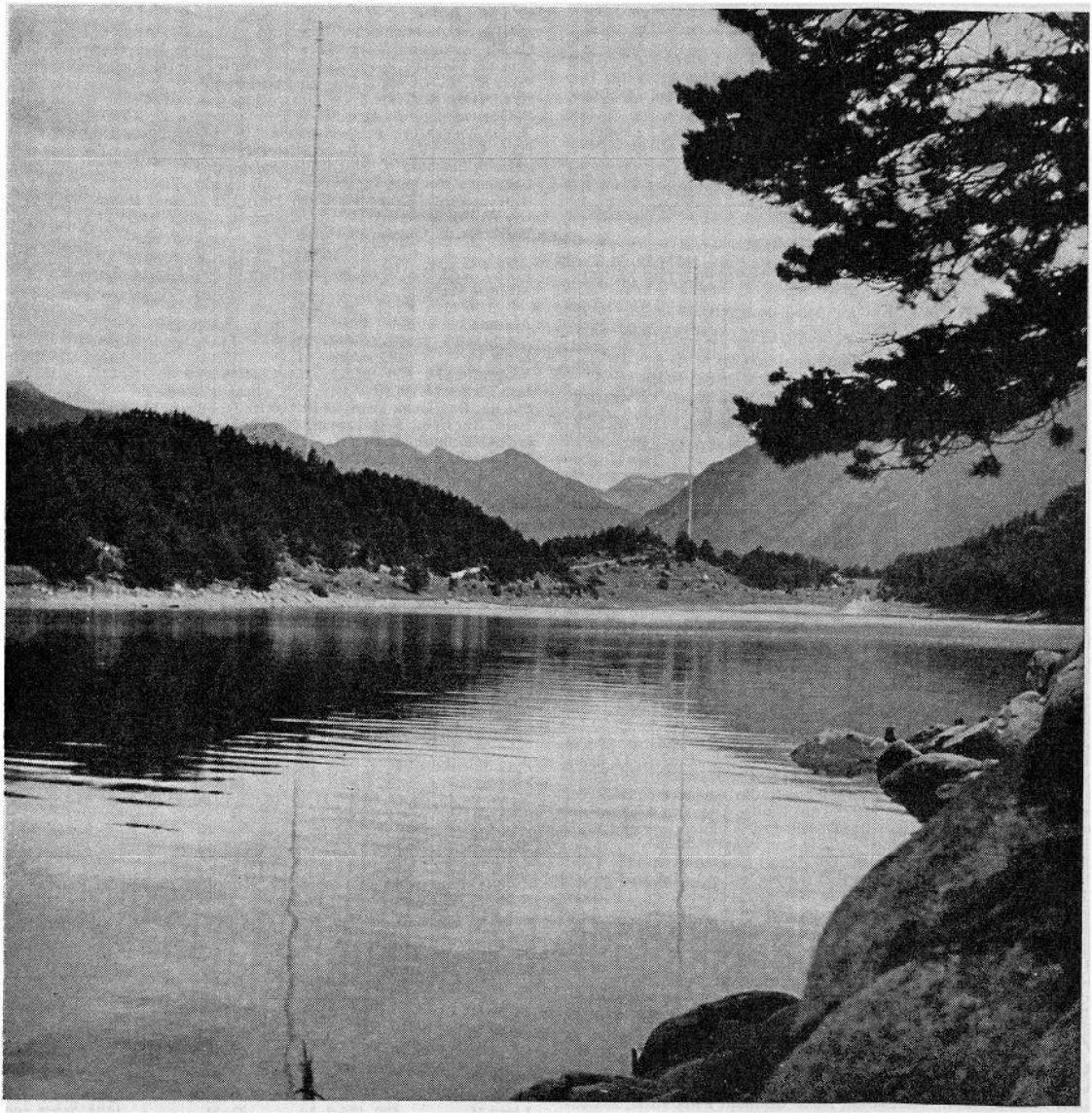
AQUI RADIO ANDORRA!



(PHOTO PEIG, ANDORRE).

AQUI RADIO-ANDORRA, c'est l'indicatif universellement connu d'une des stations les plus populaires d'Europe. RADIO-ANDORRE qui émet quotidiennement en Français, en Espagñol, en Allemand, en Anglais, etc... a installé ses pylônes et ses antennes "les plus hautes d'Europe" au bord du lac d'Engolasters, à 2.000 mètres d'altitude, dans le cadre d'un des sites les plus pittoresques de la Principauté d'Andorre.

EUROPE

ALBANIA

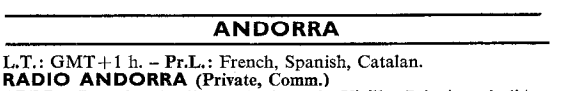
L.T.: GMT+1 h – **Pr.L.**: Albanian.
RADIODIFFUSION ET TELEVISION ALBANAISE (Go.)
ADDR.: Rue Conference de Peza 3, Tirana. **Cable:** Albradio. Te.: 2215 – **L.P.**: Dir.: Th. Nano. Head, Foreign Rel. Dept.: D. Nini. Dir. Tec.: S. Qirko.

HOME SERVICE

Tirana 1088 kc 257.7 m 50 kW – Korça 1349 kc 222 m 0.2 kW
Tirana 1358 kc 221.0 m 1 kW
D. Prgr.: on 1088, 1358 kc: W 05.00–07.00, 11.00–22.00. Sun 05.00–10.00, 11.00–22.00.
N.: 05.30, 06.30, 11.30, 13.00, 14.00, 17.00, 18.00, 19.00, 21.00 – **Wrp.**: 20.15

FOREIGN SERVICE

STATIONS: 1088 kc 275.7 m – 7092 kc 42.3 m – 9677 kc 31.00 m 04.00–07.00, 15.30–19.00 on 1088, 9677 kc; 19.00–22.00 on 1088, 7092, 9677 kc.
Albanian: 17.30–18.00 – **Arabic:** 04.00–04.30, 06.00–06.30, 19.30–20.00 – **Bulgarian:** 05.00–05.30, 17.00–17.30 – **English:** 20.00–20.30, 21.30–22.00 – **French:** 18.00–18.30, 21.00–21.30 – **Greek:** 04.30–05.00, 18.30–19.00 – **Italian:** 06.30–07.00, 15.30–16.00, 20.30–21.00 – **Russian:** 16.30–17.00, 19.00–19.30 – **Serbo-Croat:** 05.30–06.00, 16.00–16.30.
ANN.: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". Bulgarian: "Govori Tirana". E: "This is R. Tirana calling". F: "Ici R. Tirana". Greek: "Milun Ta Tirana". I: "Parla Tirana". Russian: "Govorit Tirana". Serbo-Croat: "Govori Tirana". – **INT.-SIG.**: 9 notes played on clarinet – **V.** by letter.



ANDORRA

L.T.: GMT+1 h. – **Pr.L.**: French, Spanish, Catalan.
RADIO ANDORRA (Private, Comm.)
ADDR.: Roc des Anelletas, Andorre la Vieille, Principauté d'Andorra. **Cable:** "Randorra". – **Te.**: 100.
L.P.: Dir. Gen.: G. Dahlqvist. Dir. Tec.: J. L. Marquet. Dir. Prgr.: G. Marquet. French Dept.: J. Bonis. Spanish Dept.: F. Torres. Pub. Dept.: A. Garric. Listeners Sce.: C. Ruiz.
STATIONS: 998 kc 300.6 m 140 kW – 6195 kc 48.43 m 25 kW
HOME SCE.: 05.45(Sun. 06.45)–23.00 on 998 kc. – **French:** D. 05.45 (Sun. 06.45)–13.00, 15.00–21.00 – **Spanish:** D. 13.00–15.00, 21.00–23.00.
ANN.: F.: "Ici Radio Andorra – Aqui Radio Andorra emisora del principado de Andorra" – Sp.: "Aqui Radio Andorra, emisora del principado de Andorra, Roc de la Anelletas, Andorra la Vieja, Principado de Andorra".
INTERNATIONAL SCE.: **L.P.**: Dir. Gen.: G. Dahlqvist. Dir. Tec.: P. Cousse. Dir. Prgr.: M. Brard. French Dept.: J. Tellez. Foreign Dept.: P. Danjon. Publ. Dept.: T. Montserrat-Rodriguez. Listeners Sce.: L. Merinos.
SERVICE: D. 11.00–13.00, 16.00–23.00 in English, French, German, Spanish on 6195 kc.
ANN.: F.: "Ici Radio Andorre International" – E.: "This is Radio Andorra International" – Sp.: "Aqui Radio Andorra Internacional emisora del Principado de Andorra" – G.: "Hier ist Radio Andorra".
INT.-SIG.: Gong low. Open and close down: "Hymne national Andorran" and "Marche des Conseillers Andorrans".
V. by QSL-card or letter. Rp.

RADIO DES VALLEES D'ANDORRE S.A. (Comm.)
ADDR.: P.O. Box 7, Andorra-la-Vieille. **Cable:** Radioval. – **Te.**: 7.
L.P.: Pres. & Adm.: Felix Rista. Adm. Council: Felix Rista, J. Cruchon, A. Farrero, J. Chevance, G. Gaudy. Dir.: C. Delephine. Dir. Tec.: R. Yves, P. Reymond.
STATIONS: 818 kc 366.8 m 400 kW – 6305 kc 47.58 m 1 kW FM: 98.9 Mc 1 kW.
HOME SCE. in French, Spanish, Catalan: D. 05.30–23.30.
French: D. 05.30–13.00, 15.00–21.00 – **N., Wrp.:** 05.30 and every h. until 22.30 exc. 12.30, 12.00 – **Catalan:** D. 13.00–13.15, 21.00–21.05.
French & Spanish: 13.15–15.00, 21.05–23.30. – **Intern. Prgr.:** Sat. 11.00–12.00 in French, Spanish, Catalan, Danish, Norwegian, Swedish, English & Italian.
ANN.: F.: "Ici Radio des Vallées Andorre No. 1". **Catalan, Sp.**: "Aqui R. del Valls, Andorra uno". – **INT.-SIG.**: Xylophone. – **V.** by QSL-card and letter. Rp. – **F.PL.**: 300 kW m.w.-st. – **PUB.**: Prgr.schedule (weekly), Journal (every 2 months).

AUSTRIA

L.T.: GMT+1 h – **Pr.L.**: German.
ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)
FI.: by license payments and adv. – **AD.**: Prgr. I: 70 min. per day; Prgr. II: 15 min. per day; Prgr. III: 8 h 53 min. per day. Local: 1 h. 27 min. per day.
ADDR.: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30a. **Cable:** Rundfunk Wien. Te.: 656661 – **L.P.**: Dir. Gen., Adm.: J. Scheidl. Vice Dir. Gen., Dir. Tec.: Dipl. Ing. W. Füchsl. Dir. Prgr.: Prof. Dr. A. Ubelhör. Dir. TV: G. Freund.
STUDIOS: R. Graz, Zusertalgasse 14a, Graz III. **Cable:** Radio Graz. P. Goritschnig – **R. Klagenfurt:** Sponheimerstr. 13, Klagenfurt. **Cable:** Radio Klagenfurt. P. Goritschnig – R. Linz: Obere Donaulände 1, Linz. **Cable:** Radio Linz. A. Schwetz – **R. Salzburg:** Franziskanergasse 5, Salzburg. **Cable:** Radio Salzburg. Dr. P. Becker – **R. Tirol:** Landhaus Neubau, Innsbruck. **Cable:** Radio Tirol. Dr. J. Scheidle – **R. Voralberg:** Neues Rathaus, Dornbirn. **Cable:** Radio Voralberg. Dr. W. Tölzer – **R. Wien:** Argentinierstr. 30a, Wien IV. **Cable:** Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

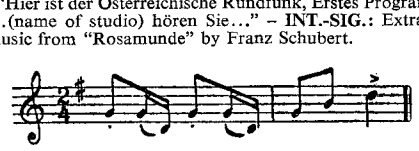
FIRST PRGR.: W 04.30–21.05. Sun 05.00–21.15.
Medium Waves:

	kc	m	kW		kc	m	kW
Aldrans I	629	476.9	25	Salzburg I	773	388	1
Lauterach I	629	476.9	25	Linz	890	337.1	15
Lienz I	629	476.9	1	Graz	1394	215.2	25
Klagenfurt I	728	412.1	25	Wien I	1475	203.4	150

Low Power M.W. (0.05 kW, exc. where indicated):
566 kc: Bad Ischl, Feistritz (0.1), Greifenburg*, Maria Pfarr*, Mühlbach, Radstadt, Eisenkappel, Neukirchen – **674 kc:** Aigen, Bischofshofen, Bleiburg, Gloggnitz, Neumarkt, Matrei, Ried, Radentheim* – **773 kc:** Bad St. Leonhard, Hergamor*, Lend, Mariazell, Oberdrauburg, St. Michael/Lungau – **1052 kc:** Krems, Neunkirchen – **1124 kc:** Bruck/Mur (0.1), Eisenerz, Hofgastein, Imst, Judenburg (0.1), Kufstein* (0.015), Mayrhofen*, Tamsweg, Gmünd*, Kötschach, Mürzzuschlag (0.1), Villach (0.1), Obervellach – **1142 kc:** Rottenmann – **1313 kc:** Kindberg, Friesach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Haslach, Murau*, Ötz 1, Trieben – **1394 kc:** Admont. Bludenz*, Spital/Drau (0.2), Zell/Zee (0.2) – **1457 kc:** Amstetten. Schruns, Wr. Neustadt – **1484 kc:** St. Pölten (0.2) – **1493 kc:** Kitzbühel*, Landeck*, Mittersill, Reutte*, Saalfelden*, Schwarzach, Windisgarsten, Wörgl – **1546 kc:** Bad Aussee*, Leoben (0.1) – **1594 kc:** Branau, Feldkirchen, Zwettl. – * operated by the postal adm.

FM:	ch	Mc	kW		ch	Mc	kW
Jauerling I	15	91.4	50	H. Keibling I	24	94.3	4
Hahnbaum I	16	91.8	0.1	Gaisberg I	26	94.8	50
Patscherkofel I	18	92.5	50	Lichtenberg I	27	95.2	50
Stubnerkogel I	17	92.1	0.1	Schöckl I	28	95.4	50
Schmittenhöhe I	18	92.4	0.01	Kahlenberg I	36	97.9	50
Pyramidenkogel I	36	97.8	10	Sonnwendst. I	29	95.8	2.5
Pfänder I	21	93.3	50	Mugl I	39	98.7	20

N: W: 04.45, 05.45, 06.45, 11.30, 16.00, 19.00, 21.00. Sun: 05.45, 07.00, 08.00, 11.30, 16.00, 19.00, 21.00.
"Blick in die Welt": D 21.10.
Slovenian (Klagenfurt only): Sun 06.30–07.00, Mo–Fri 13.15–14.00, Sat (fortnightly) 17.25–17.45.
ANN.: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio...(name of studio) hören Sie..." – **INT.-SIG.**: Extract from ballet-music from "Rosamunde" by Franz Schubert.



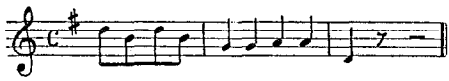
SECOND PRGR.: W 04.30–23.05. Sun 05.00–23.05.
Medium Waves:

	kc	m	kW		kc	m	kW
Aldrans II	520	576.9	10	Wien II	584	513.7	150
Lienz II	520	576.9	10	Dobl	1025	292.7	100
Bludenz II	520	576.9	0.05	Kronstorf	1025	292.7	100
Klagenfurt II	584	513.7	25	Lauterach II	1025	292.7	10
Salzburg II	584	513.7	10	Mariapfarr II	1025	292.7	5

Low Power M.W. (0.05 kW): **520 kc:** Bludenz 2, Murau 2 – **584 kc:** Mayrhofen 2 – **1025 kc:** Hermagor 2, Ötz 1, Kitzbühel 2 – **1142 kc:** Bad Aussee 2, Landeck 2 Reutte 2, Saalfelden 2.

FM:	ch	Mc	kW		ch	Mc	kW
Mugl II	2	87.6	20	Patscherkofel II	31	96.4	15
Schöckl II	7	89.2	1.2	Jauerling II	33	97.0	15
Gaisberg II	13	90.8	5	Hahnbaum II	34	97.2	0.1
Kahlenberg II	16	91.9	1.2	Lichtenberg II	35	97.5	1.2
H. Kaibling II	31	96.3	4	Pfänder II	9	89.7	2
Stubnerkogel II	31	96.3	0.1				

N, Wrp: W 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00, 23.00. Sun 05.00, 06.00, 07.00, 09.00, 12.00, 16.00, 18.00, 21.00, 23.00.
"Eine Woche Weltgeschehen": Sun 18.10 – **Quiz Prgr.:** Sat 19.00 – **L.L.: English:** Fri 20.40–20.55.
ANN.: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie..." – **INT.-SIG.:** Extract from Opera "Die Zauberflöte" by W. A. Mozart.



THIRD PRGR.: relay 2nd Prgr.

FM:	ch	Mc	kW		ch	Mc	kW
Hahnbaum III	4	88.2	0.1	Pfänder III	37	98.2	50
Sonnwendstein II	4	88.2	2.5	Mugl III	9	89.7	20
Patscherkofel III	5	88.5	50	Schöckl III	14	91.2	50
Stubnerkogel III	5	88.5	0.1	PyramidenkogelII	19	92.8	10
H. Kaibling III	5	88.5	4	Gaisberg III	40	99.0	50
Jauerling III	40	98.9	50	Lichtenberg III	41	99.4	50
Schmittenhöhe II	6	88.8	0.01	Kahlenberg III	43	99.9	50

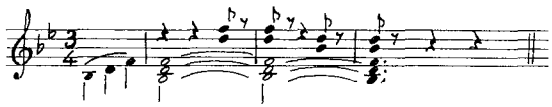
PUB.: "Radio Österreich", weekly prgr. sched. Four times a year: "Aus dem Programm" – free on request.

SHORT WAVES: Test prgr.: Powers 1/50 kW:
A=Aldrans, DA=Deutsch Altenburg, K=Kronstorf, M=Moosbrunn, F=Fleckendorf.
I=Europe, II=No. America, III=Near East, IV=So. America, V=No. Africa, VI=Japan, VII=India, VIII=So. Africa, IX=Australia.

Call	Name	kc	m	Time	Areas
OEI20	A	6000	50.00	04.30–24.00	I
OEI21	M	6155	48.74	04.30–06.00	I
	K			06.00–08.00	I
	M			08.00–11.00	I
	K			11.00–12.30	I
	M			12.30–18.00	I
	K			18.00–20.00	I
OEI33	M	7245	41.41	06.00–08.00	I
	K			08.00–09.30	I
	M			09.30–14.00	I
	K			14.00–15.00	I
	M			15.00–17.00	I
	K			17.00–18.00	I
	M			18.00–20.00	I
OEI49	M, F	9525	31.50	00.00–02.00	IV
OEI47	DA	9770	30.71	11.00–14.00	I+III
	M			14.00–15.00	I+III
	K			15.00–16.00	I+III
	M			16.00–17.00	I+III
	M			00.00–02.00	II
	F			02.00–04.00	II
OEI52	F	11785	25.46	02.00–04.00	IV
	M			04.00–07.00	VI
	M, K			08.00–11.00	III+V
	DA			11.00–14.00	III
	M, K			14.00–17.00	III+V
OEI67	M	15295	19.62	17.00–20.00	VIII*
OEI64	M	15305	19.60	07.00–09.00	VI*
OEI65	M	15405	19.47	13.30–15.00	VII*
OEI66	F	15410	19.47	06.00–09.00	III
OEI78	M	17840	16.82	12.00–13.30	VII*
OEI702	M	17875	16.79	09.00–12.00	IX*
OEI701	M	17890	16.77	15.00–17.00	VIII*

*) Only on Mo, Wed, Fri.

INT.-SIG.:



V. by QSL-card or letter.

AZORES (Portuguese)

L.T.: GMT÷2 h (Su.÷1 h) – **Pr. L.:** Portuguese.
EMISSOR REGIONAL DOS ACORES (Go.)
ADDR.: Av. Gaspar Fructuoso, Ponta Delgada, S. Miguel. **Te.:** 22624.
STATION: CSA97 4865 kc 61.66 m 1 kW.
HOME SCE.: 14.00–15.00, 20.00–24.00. **N.:** 14.30, 22.30.
ANN.: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Açores da Emissora Nacional" – **INT.-SIG.:** Chimes – **V.** by letter or QSL-card.

RADIO CLUB DE ANGRA (Comm.)
FI.: By adv. – **ADDR.:** Rua Conselheiro Anastacio de Bettencourt, Angra do Heroismo, Ilha Terceira. **Te.:** 219 – **L.P.:** Pres.: A. Monjardino. Dir. Tec.: J. E. L. Fernandes.
STATION: CSB80 1394 kc 215.2 m 1 kW.
HOME SCE.: W 08.00–10.00, 12.00–14.00, 18.00–23.00. Sun 08.00–23.00.
ANN.: "Aqui estaçao CSB80 de Radio Club de Angra (A Voz da Terceira)".

EMISSORA DO CLUBE ASAS DO ATLÂNTICO (Comm.)
FI.: By adv. – **ADDR.:** Aeroporto de Santa Maria. **Te.:** 285 – **L.P.:** Dir. Tec.: A. Franzão.
HOME SERVICE: CSB81 1571 kc 191 m 1 kW: 11.00–15.00, 18.00–24.00. **N.:** 12.00, 20.00, 21.00 – **Wrp.:** 13.00, 15.00, 18.00, 24.00.
ANN.: "Aqui Santa Maria, Fala a Estação Emissora do Clube Asas do Atlantico". – **INT.-SIG.:** Opens with music played on a Portuguese string instrument (viola) and guitar – **V.** by postcard.

ARMED FORCES RADIO TELEVISION SCE.: see USA.

BELGIUM

L.T.: GMT+1 h – **Pr.L.:** French, Flemish, German.
RADIODIFFUSION-TELEVISION BELGE (R.T.B.) – BELGISCHE RADIO EN TELEVISIE (Belgian Broadcasting and Television) (Go.)
FI.: by state grant-in-aids – **ADDR.:** Place Eugène Flagey 18, Bruxelles 5. **Cable:** INR Bruxelles. **Te.:** 48.81.00.
L.P.: Emissions françaises: Dir. Gen.: R. Wangermée. Prgr. Dir.: M. Hankard. Prgr. Dir. (TV): L. P. Kammans – **Nederlandse uitzendingen:** Dir. Gen.: P. Vandenbussche. Prgr. Dir.: C. Mertens. Prgr. Dir. (TV): B. Jansens – **Services Communs. Gemeenschappelijke diensten (common sce's):** Tec. Dir. Gen.: F. Mortiaux. Chief Eng's: G. Gourski and M. De La Fonteyne. Adm. & Finance Dir. Gen.: F. Hoosemans – **International Sce.s:** Exec. Dir.: F. Zoete. **German Prgr.:** Head: Mrs. I. Janetzky – **Cultural Services** (including Foreign Relations): Dir.: L. Wallenborn.

HOME SERVICE:

FRENCH NETWORK

Bruxelles I (Nat.)	620 kc	483.9 m	150 kW	(Wavre)	
Bruxelles IV (Reg.)	1124 –	266.9 –	10 –	(Aye, Houdeng)*	
	1484 –	202.2 –	5 –	(Liège)*	
Anlier (Nat.) 87.6 Mc 10 kW			Bruxelles(3.prgr.) 96.1 Mc 2 kW		
Houdeng(Reg.) 92.3 – 50 – *			Houdeng(3.prgr.) 99.1 – 50 –		
Ougrée (Reg.) 90.5 – 50 – *			Liège (3.prgr.) 99.5 – 10 –		
Anlier (Reg.) 91.5 – 10 – *			Anlier (3.prgr.) 94.1 – 10 –		

* Prgr.'s from studios in Mons, Namur, Liège.
FM-Ougrée: 88.5 Mc 10 kW German Prgrs.
620 kc rel. on FM 87.6 Mc: W 05.30–22.00(Sat 23.00). Sun 05.30–23.00.
N, Wrp: 05.30, 06.00, 07.00, 08.00, 09.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.30, 21.00, 21.55. Sat, Sun 22.55 – **Wrp.:** 10.50.
1124 kc rel. on FM 92.3, 90.5, 91.5 Mc: 09.00–14.30, 17.00–22.00.
Symphony Concert: Tues 19.00–21.00.

FLEMISH NETWORK

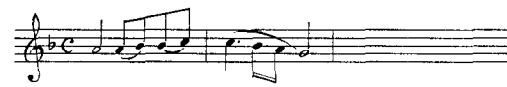
Brussels II (Nat.)	926 kc	324.0 m	150 kW	(Wavre)	
Brussels III (Reg.)	1484 –	202.2 –	0.5 –	(Kortrijk)*	
	1511 –	198.5 –	20 –	(Veltem)*	

FM-Flemish Network

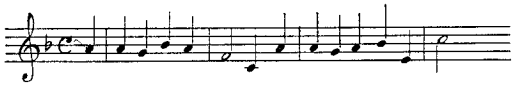
		Mc	kW			Mc	kW
Aalter	(Nat.)	95.7	10	Veltem	(3. prgr.)	89.5	50
Veltem*	(Reg.)	93.7	50	Aalter	(3. prgr.)	90.4	10
Genk*	(Reg.)	97.9	10	Genk	(3. prgr.)	89.9	10
Aalter*	(Reg.)	98.6	50				

* Prgr.'s from studios in Kortrijk, Ghent and Hasselt.
926 kc (rel. on FM 95.7 Mc):
W 05.30–22.00(Sat 23.00). Sun 05.30–23.00 – **N., Wrp.:** 05.30, 06.00, 07.00, 08.00, 11.30, 12.00, 16.00, 18.00, 21.00, 21.55. Sat, Sun 22.00 – **Wrp.:** 05.30, 07.00, 11.30.
1511 kc (rel. on FM 93.7, 97.9 & 98.6 Mc): 09.00–13.00, 16.00–22.00.
Symphony Concert: Fri 19.00–21.00.
D 16.00–18.00 or 17.00–19.00 varied prgr. and N.

ANN.: F.: "Radiodiffusion-Télévision Belge". **Fl.:** "Belgische Radio en Televisie". **G.:** "Belgischer Fernseh-Rundfunk" – **INT.-SIG.:** Xylophone. F. Network: Extract from Grety's famous melody "Ou peut-on être mieux".



Fl. Network: The first movement of "Beiaarlied" (Extract from Rubens' cantata by Peter Benoit).



V. by QSL-card or letter – PUB.: "De Radio and Televisieweek" (weekly).

INTERNATIONAL SERVICE

ADDR.: Direction of International Services of R.T.B./B.R.T., 18, place Eugène Flagey, Brussels 5, (for listeners and QSL-cards: Box 26, Brussels 1). Cable: INR Mondial Brussels. Te.: 48.81.00.
L.P.: Exec. Dir.: F. Zoete. Heads. News: J. Vandenbranden and J. Mertens. Transcription & Public Rel.: M. Swaenepoel.
STATIONS: ORU Wavre, ORU3/ORU4=100 kW, ORU5=20 kW.

kc	m	kW	kc	m	kW	kc	m	kW	kc	m	kW
6000	50.00	20	9705	30.91	100	11850	25.32	20	17845	16.81	100
6140	48.86	100	9745	30.78	100	15335	19.56	20	17860	16.80	100
						15435	19.44	100	21510	13.94	100

Abbreviations: A=French/Flemish; B=French/Flemish/Congolese; C=French/Flemish/Congolese/English; D=French/Flemish/English; I=Africa; II=No. America; III=So. America; IV=So. Europe; V=Far East.

Time	L	Area	4/11–2/3 kc	3/3–6/5 m b	6/5–2/9 m b	2/9–4/11 m b
10.00–12.00	B	I	17860	16	16	16
		I	21510	16	16	16
		I	15335	16	16	16
12.15–13.00a)	A	V	15435	16	16	16
		IV	15335	16	16	16
		I	17860	16	16	16
13.30–16.00b)	B	I	15335	16	16	16
		I	17845	16	16	16
		I	17860	16	16	16
16.15–17.45	B	I	9745	31	31	31
		I	9705	31	31	31
		I	11850	31	31	31
17.45–21.00c)	B+D	I	9705	31	31	31
		I	9745	31	31	31
		I	11850	31	31	31
21.15–23.00	A	I	9745	31	31	31
		III	9705	31	31	31
		IV	6000	31	31	31
23.15–01.00	A	I	9745	31	31	31
		II	6140	31	31	31
		IV	6000	31	31	31

a) for missionaries and seamen (alternatively in French and Flemish), b) Sat (Congolese), Sun (Sport, French and Flemish), c) for Belgians and for Africans.
N.: French: 10.30, 11.30, 19.15. Flemish: 10.15, 11.45, 18.30.
ANN.: F.: "Ici Bruxelles, Radiodiffusion-Télévision Belge, Emissions Mondiales". Fl: "Hier is Brussel, de Belgische Radio en Televisie, Wereldomroep". E.: "This is Brussels, the Belgian Radio and Television, Overseas Service station ORU" – SIGNALS: Starting: Xylophone – INT.-SIG.: Gevaerts "Vers l'avenir". The signal at the start of each broadcast: "Où peut-on être mieux" – Closing: Belgian National Anthem – V. by QSL-card.

BULGARIA

L.T.: GMT+2 h – Pr.L.: Bulgarian.

BULGARIAN BROADCASTING SERVICE (Go.)

FI.: By state – AD.: 30 min. per day – ADDR.: Bulgarian Broadcasting at the Ministry of Education and Culture, 4 Dragan Zankov Str., Sofia. Cable: Bolgarradio. Te.: 7.10.44 – L.P.: Dir. Gen.: N. Ganchovsky. Dir. Tec.: J. Jerkov.

HOME SERVICE:

	kc	m	kW		kc	m	kW
Sofia II	593	506	60	Stara Zagora	1223	235	20
Sofia I	827	362.7	100	Pavlovo	1484	202	2
Varna	1124	267	5	Sofia III	7670	39.11	50

03.25–08.37 on 593, 1124, 1223, 1484 kc / 08.37–09.55 on 827, 7670 kc / 09.55–14.55 on 593, 827, 1124, 1223, 7670 kc / 14.55–20.30 on 593, 1484 kc / 20.30–22.00 on 593, 1124, 1223, 1484 kc.
N.: 03.30, 04.30, 08.30, 10.30, 14.00, 16.00, 18.30, 20.30, 21.45 – Wrp.: 03.40, 10.45, 18.45 – Folklore Music: Mostly at 04.00–07.00, 10.00–12.00, 17.00–19.00.

FOREIGN SERVICE:

593 kc	506.0 m	60 kW	7290 kc	41.15 m	50 kW	
827 –	362.7 –	100 –	7670 –	39.11 –	50 –	
1124 –	267 –	5 –	9560 –	31.38 –	100 –	
1223 –	245 –	20 –	9700 –	30.93 –	120 –	
6070 –	49.92 –	120 –	11850 –	25.32 –	120 –	
6170 –	48.62 –	50 –	15330 –	19.57 –	120 –	
7255 –	41.35 –	120 –	17800 –	16.85 –	100 –	

TO EUROPE & M. EAST

Arabic	kc
11.30–11.55	9700, 11850, 15330
17.00–17.55	6070, 7255, 9700, 11850
19.30–20.00	6170, 7670
Bulgarian	
12.30–12.40	6070, 7255, 9700
22.15–22.25	6170, 9700, 11850
English	
19.30–20.00	6070
21.30–22.00	6070, 9560
23.35–24.00[1]	6070 (music)
Esperanto	
19.00–19.25[2]	6170, 7670
23.30–23.55[2]	9560, 11850
French	
19.00–19.25	6070, 9700
21.00–21.30	6070, 9560
German	
20.00–20.55	6070, 7255
Greek	
06.00–06.30	827, 6070, 7670
12.00–12.25	6070, 7255, 9700
16.00–16.25	6070, 7255, 9700
19.00–19.30[3]	6170, 7670
20.30–21.00	827, 6170, 7670
Italian	
18.30–18.55	6070, 7255
20.00–20.30	6170, 7255, 7670
21.00–21.30	6170, 7670
22.00–22.30	827 (exc. Fri)
Macedonian	
04.30–05.00[3]	827, 6070, 7670
21.00–21.30	827
06.30–07.30[2]	827, 6070, 7670
Serbo-Croatian	
05.00–05.30[3]	827, 6070, 7670
07.30–08.30[2]	827, 6070, 7670
18.00–18.25	6070, 6170, 7255, 7290
21.30–22.00	827, 6170, 7670
Spanish	
20.30–21.00	7290
22.30–23.00	6170, 9700, 11850
00.00–00.30	9560, 11850
Turkish	
05.30–06.00	692, 827, 962, 1376, 6070, 7670
11.00–11.25	6070, 9700, 11850
16.30–16.55	6070, 6170, 7255, 9700
18.30–19.00	6170, 7670

TO AFRICA

English	kc
19.05–19.25	15330, 17800
21.05–21.30	9700, 11850
French	
19.30–19.55	15330, 17800
21.30–21.55	9700, 11850

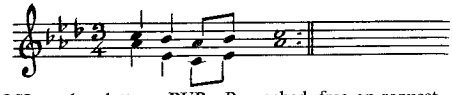
NO. AMERICAN SERVICE

Bulgarian	kc
00.30–01.00	6070
English	
23.35–24.00[5]	6070 (music)
00.00–00.30	6070
01.00–01.30	6070
04.00–04.30	6070

SO. AMERICAN SERVICE

Bulgarian	kc
23.00–23.30	9700, 11850
00.30–01.00	9560, 11850
Spanish	
00.00–00.30	9560, 11850
22.30–23.00	6170, 9700, 11850

[1] also f. No. America – [2] Sun only – [3] not Sun – [4] exc. Sat – [5] also f. Europe.
ANN.: Home Sce.: "Govori Sofia" – Foreign Sce.: E.: "This is Sofia Bulgaria calling" – F.: "Ici Sofia, Radiodiffusion-Television Bulgare" – Tu.: "Burasi Sofia radiosu" – Gr.: "Milai i Sofia" – G.: "Hier spricht Sofia Bulgarien" – I.: "Que è Radio Sofia" – Arabic: "Huna Sofia" – Sp.: "Habla Sofia". – INT.-SIG.: The beginning of a Bulgarian song, which begins with the words "Dear Homeland":



V. by QSL-card or letter – PUB.: Prgr.sched. free on request.

CZECHOSLOVAKIA

L.T.: GMT+1 h. – Pr.L.: Czech, Slovak.

CESKOSLOVENSKY ROZHLAS (Go.)

FI.: By license payments. – AD.: Mo. 17.40, Wed. 17.25, Sat. 21.50.
ADDR.: Czechoslovak Radio, Praha 2, Vinohradska 12. Cable: Radiopraha – Te.: 232151. – L.P.: Dir. Gen.: K. Hoffman. Dep. Dir. Gen.: J. Riečan (Slovakia), Dept. Dir. Gen.: R. Behal (Prgrs.), Dep. Dir. Gen.: K. Hrabal (Foreign Sce.), Dep. Dir. Gen.: M. Junek (Engineering), Dep. Dir. Gen.: J. Janoušek (Adm.), Head Foreign Rel.: K. Reif.

HOME SERVICE: Medium Wave

Name	kc	m	kW		kc	m	kW
ČS I	272	1102.9	200	Bratislava	1232	243.5	100
Praha	638	470.2	150	ČS I	1286	233.3	100
Bratislava	701	427.2	100	Praha	1484	202.2	2
Praha	953	314.7	100	Bratislava	1484	202.2	2
Praha	953	314.7	15	ČS I	1520	197.3	1
Bratislava	1097	273.5	150	Ostrava	1594	188.0	2

FM

Praha	68.96	Mc	4	kW	Mid. Moravia	71.87	Mc	1 kW
	71.63	–	4	–	No. –	69.08	–	1 –
East Bohemia	69.35	–	4	–	West Slovakia	68.84	–	8 –
	67.22	–	1	–		66.98	–	1 –
No –	70.58	–	4	–	Mid. Slovakia	69.68	–	8 –
	72.20	–	1	–		72.50	–	1 –
We. –	69.56	–	8	–	East –	68.87	–	8 –
	67.34	–	1	–		66.38	–	1 –
So. –	70.07	–	8	–	Žilina	69.50	–	1 –
Mid. Moravia	69.86	–	8	–	Tatry	69.20	–	1 –

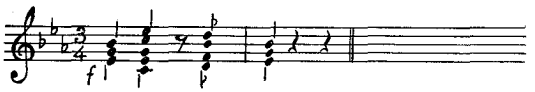
ČS I: Czech, Slovak: 03.30(Sun. 05.00)–23.00. N., Wrp.: 03.30, 04.30, 05.30, 06.30, 08.30, 11.30, 15.00, 17.00, 20.00, 22.00. Sun.: 06.00, 07.45,

12,00, 17.00, 20.00 – **Night Concert** (with multilingual ann.): Mo., Wed., Thurs., Sat. 22.15–23.00.

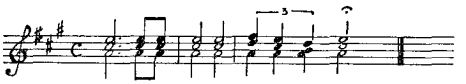
PRAHA: Czech: 03.30(Sun. 05.00)–01.00. **N., Wrp.:** 03.30, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.50, 00.55. Sun.: 05.00, 06.45, 11.05, 18.00, 21.00, 22.50, 00.55. – **L.L.: Russian:** Wed. 15.30–15.45 – **Spanish:** Tues.: 10.25–10.45, 21.00–21.20, Thurs.: 15.40–16.00, 17.30–17.50 – **Night Concerts** (with multilingual ann.): Tues., Fri., Sun. 22.00–22.50.
Bulgarian on 1520/1286 kc: Sat.: 11.45–12.15, 16.01–16.26.
Polish on 1520/1594 kc: W. 15.50–16.00, Tues. also 10.30–11.00.
German on 1286 kc: W. 16.00–16.15, Sun. 08.00–09.00.

BRATISLAVA: N., Wrp.: W.: 03.30, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.55. Sun.: 05.00, 06.45, 11.30, 18.00, 21.00, 22.55 – **L.L.: Russian:** Thurs. 15.00–15.15 – **Hungarian:** Mo.–Fri.: 06.00–06.15, 06.50–07.00, 11.00–12.00, 14.00–15.00. Sat. 06.00–06.15, 06.50–07.00, 11.00–15.00. Sun. 07.00–15.00. Thurs. also 09.20–09.55 – **Ukrainian:** Mo.–Fri.: 15.00–15.30, 16.15–16.25. Fri. also 09.00–09.35. Sat. 15.00–16.00, 16.15–16.25. Sun. 06.30–06.45, 15.00–16.00.

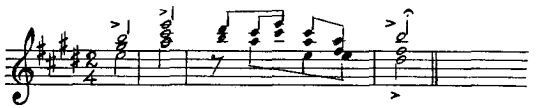
INT.-SIG.: HOME SCE.:
PRAHA: The two opening bars of Smetana's symphonic Poem "Vyšehrad"



ČS: Fanfares from a March by V. Dobiás.



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE

100 kW exc. 1097 kc 150 kW

kc/s	m	kc	m	kc	m	kc	m
1097	273.5	6055	49.55	9550	31.41	15285	19.63
1286	233.3	7235	41.47	9795	30.63	15448	19.42
5930	50.57	7345	40.85	11725	25.59	17755	16.90
6025	49.79	9505	31.56	11990	25.02	21450	13.99

Working frequencies are subject to minor changes with seasonal variations or to avoid interference.

a=Europe; b=We. Eu., No. Sea; c=Eu., No. Af., N. East; d=Africa; e=N. East, So. & So. Ea. Asia; f=We. Af.; g=So. We. Eu.; h=No. Africa; i=Ea. Af.; j=So. Ea. Eu.; k=No. Am., No. Atlantic; l=So. America, Mid. Altantic; m=No. Atlantic, East & Central No. America, Caribbean.

Czech:

07.30–08.00	11725(a), 15245(d), 15285(b)
21.00–21.30	5930(a), 7345(k), 9550(k), 9795(l), 11990(l)
22.30–23.00	5930(m), 7345(i), 9550(m), 9795, 11990(l)
03.00–04.30	5930, 7345, 9550(m), 9795, 11990(l)

English

08.00–09.00	11725(a, h, e), 15245, 15285, 21450(e)
12.00–12.25	9505, 11725, 15285(a)
16.00–16.30	11990(h), 15285(i), 15448(f)
17.30–18.00	9550(i), 11990, 15448(f)
19.00–19.30	5930, 6025(a)
01.00–02.00	5930, 7345, 9550, 9795, 11990(m)
04.30–05.30	5930, 7345, 9550, 9795, 11990(m)

French

11.15–11.45	7235, 9505(a), 11725(a, k)
18.00–18.30	9550(i), 11990, 15448(f)
19.30–20.00	7345(i), 9550, 11990(f)

German

09.00–10.30	6055, 9505(b)
10.30–11.00	6055, 7235, 9505(a)
16.00–16.30	6055, 7345(j)

Italian

17.00–17.30	5930, 7345(a)
21.30–22.00	5930, 7345(a)

Portuguese

19.00–19.30	9550, 11990(g), 15448(f)
21.30–22.00	9550(a), 9795, 11990(l, a)
00.00–01.00	5930, 9550(m), 9795(l)

Spanish

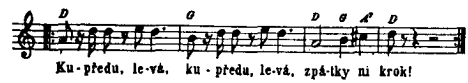
13.00–13.30	11725, 15285(a), 17755(g), 21450(f, g)
22.00–22.30	5930, 7345, 9550(a) 9795, 11990(l, a)
23.00–24.00	5930, 9550(m), 7345, 9795, 11990(l)
02.00–03.00	5930, 7345, 9550(m), 9795, 11990(l)

Swedish

10.00–10.30	7235, 9550, 11725(a)
16.30–17.00	5930, 7345(a)
18.30–19.00	5930, 6025(a)

Prgr.s for radioamateurs and SWL's:
English (to No. America and the Pacific): On alternate Thurs. (repeated Sun.) at 20.00 and 23.30 h. EST. The repeat for Far East and Australia is heard on alternate Fri. (Mo.) at 08.00 h. – **English** (to Europe): Every first Mo. of the month at 19.00 h. and repeated at 22.00 h. – **Swedish:** Every last Thurs. of the month at 16.30 h. – **German:** Irreg. in the "Hobby Sendung" heard every Thurs. at 17.15 for Austria and at 19.00 for Germany.

ANN.: E.: "This is Prague". – **Arabic:** "Huna Pragh". – **F.:** "Ici Prague, Tchécoslovaquie". – **I.:** "Qui Praga, Cecoslovacchia". – **G.:** "Hier spricht Prag". – **Greek:** "Edo Praga". – **Yugoslavian:** "Govori Prag". – **Sp.:** "Aqui Radio Praga, Checoslovaquia". – **P.:** "Aqui fala a Radio Praga". – **Swedish:** "Här är Prag". – **Czech/Slovak:** "Posloucháte Prahu, vysílání Čs. rozhlasu pro krajany". – **INT.-SIG.:** The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



V. by QSL-card and letter. – **PUB.:** "Ceskoslovensky rozhlas a televise" (weekly). Prgr.sched. in English and Russian (weekly). Foreign Sce. sched. free on request – "Rozhlasova prace" (monthly).

DENMARK

L.T.: GMT+1 h – **Pr.L.:** Danish.

RADIO DENMARK (Go)
FI.: By license payment – **ADDR.:** Radio Denmark, Radiohuset, Rosenørnsallé 22, Copenhagen. **Cable:** Danradio. **Te.:** 350647.
L.P.: Dir. Gen.: Hans Sølvhøj. Prgr. Dir./Sound: Aksel Dahlerup. Prgr. Dir./TV: Jens Fr. Lawaetz. Dir. Adm.: Ejnar Jensen. Dir. Secretariate: Erik Carlsen. Dir. Music: Vagn Kappel. Dir. Drama: Felix Nørgaard. Dir. Entertainment: Svend Pedersen. Dir. Inf. & Shortwave: P. Berg. Dir. Tec.: Fr. Heegaard. Dir. N.: N. Grunnet.

HOME SERVICE:
1st Prgr.: W 05.00–23.05. Sun 07.00–23.05.

	kc	m	kW		kc	m	kW
Kalundborg I	245	1224	150	København I	1484	202	2[1]
København II	1430	210	10[2]				

[1] D 16.00–23.05 only. Sun 07.00–11.00. [2] 05.00(Sun 07.00)–16.00.
N.: 05.00(W), 06.00(W), 07.00, 08.00(W), 11.30, 13.30(Mo–Fri), 14.00(Sat), 17.30, 21.00, 22.00(exc. Sat), 23.00 – **Wrp:** 07.45, 10.50(W), 17.05 – **L.L.: English:** Tues, Fri 08.45–09.05. **German:** 2nd & 4th Sun 07.05–07.25 – **Request Prgr.:** Sun 11.00–13.00. Tues 18.00–19.00 – **Rel.:** Sun 09.00, 13.00, W 07.30.
2nd Prgr.: W 16.00–22.05(Sat 23.05). Sun 07.00–11.00, 16.00–22.05.

	kc	m	kW		kc	m	kW
Kalundborg II	1061	283	60*	Ålborg	1484	202	0.25
København II	1430	210	10*	Tønder	1484	202	0.25
Skive	1430	210	70	Esbjerg	1594	188	2

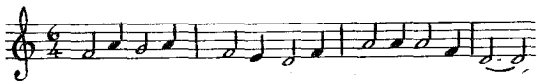
* not Mo 18.00–18.45.

FM:	Prgr.1 Mc	Prgr.2 Mc	kW		Prgr.1 Mc	Prgr.2 Mc	kW
Odense	89.0	96.8	30	Næstved	94.8	97.5	60
København	90.8	96.5	26	Vestjylland	90.2	98.5	60
Århus	91.7	95.9	30	Bornholm	94.5	99.3	30
Ålborg	93.3	88.1	30	Sønderjylland	95.1	99.9	60

N.: 17.30, 21.00(exc. Sat), 23.00.
L.L.: English: Mo, Thurs 16.40–17.00, Tues 16.00–16.20. **German:** Mo, Thurs 16.20–16.40. Sun 07.40–08.00. **French:** Sun 07.20–07.40. **Italian:** Mo, Thurs 16.00–16.20. **Russian:** Tues 16.20–16.40. **Swedish:** Sun 07.40–08.00 (twice monthly).

Regional Programmes: Mo 18.00–18.45.
North Jutland: Ålborg 1484 kc, 98.1 Mc – Middle Jutland: Skive 1430 kc, Århus 95.9 Mc – West Jutland 98.5 Mc – So. Jutland: Esbjerg 1594 kc, Tønder 1484 kc – South Jutland: 99.9 Mc – Funen: Odense 96.8 Mc – Seeland: Næstved 97.5 Mc, København 96.5 Mc – Bornholm: Bornholm 99.3 Mc.
3rd Prgr.: (to open Jan. 1st 1963) on København 93.85 Mc, Bornholm 90.0 Mc, So. Seeland 99.6 Mc, Funen 92.6 Mc, So. Jutland 97.2 Mc, Århus 88.1 Mc, We. Jutland 94.45 Mc. Ålborg 89.7 Mc. (all st's 60 kW exc. Bornholm, Århus 30 kW).

ANN.: "Danmarks Radio, Program I" (Program II) – INT.-SIG.: Prgr. I: From an old Danish folksong. D. at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:

FOREIGN SERVICE: (DS = Danish Ships).

kc	m	kW		kc	m	kW		kc	m	kW
OZF3 6060	49.50	50	OZF5	9520	31.51	50	OZF9	15320	19.58	50
OZF4 7260	41.32	50	OZF7	15165	19.78	50				

01.00–01.30	D	on 9520 kc	DS (No. Am.)
01.30–02.30	D	on 9520 –	No. Am.
03.00–04.00	D	on 9520 –	No. Am.
06.30–07.00	D	on 15165 –	DS (FE)
09.00–10.00	Tues, Thurs, Sat	on 15165 –	FE, Au., NZ[1]
14.00–14.30	D	on 15165 –	DS (So. As.)
14.30–15.30	Tues, Thurs, Sat	on 15165 –	So. As.[1]
16.00–16.30	D	on 15165 –	DS (ME)
17.30–18.20	D	on 15165 –	Greenland
18.30–19.30	D	on 15165 –	No. Af, ME[1]
19.45–20.45	D	on 15165 –	So. Af.
22.00–22.30	D	on 15165 –	DS (So. Am.)[1]
22.30–23.30	Mo, Wed, Fri	on 15165 –	So. Am.[1]

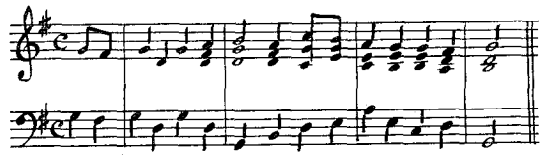
[1] Dec. and Jan. on 9520 kc.

All broadcasts are of one h duration, and generally consist of 30 min's in Danish and 30 min's in English (So. Am.: 40 min's in Danish and 20 min's in Spanish) – All broadcasts commence with N. in Danish; and in English and Spanish, respectively, at the beginning of the English and Spanish portions of the program.

Outline of week's program in Danish and English as broadcast to No. Am. and Af.: Mo: N. Literature, N. Classical, Da. Music, D. Views on the N. – Tues: N. Reportage, N. On-the-Spot. **DX-Bulletin** (DX-Bull. comes on 8 to 10 min's before sign off, Thurs for FE, Au., NZ & So. As.) – Wed: N. Light prgr., N. Folk Music, Actualities – Thurs: N. Danmark rundt, N. Concert or Features – Fri: N. Old-fashioned, Econ. or Agri. Review, N. Light Music. Anything – Anybody – Sat: N. Saturday Night Club (mailbag & request prgr.) – Sun: Weekly N-Roundup, Church Services, Reportages, etc. (generally all Danish).

Thrice-weekly prgr. to So. America and FE-Au-NZ-So.As. follow the above general outline.

ANN.: "Danmarks Kortbølgesender" – "You are tuned to the Voice of Denmark" – All transm. begin with the chimes of the Town Hall followed by the National Anthem (exc. Danish Ships which commence with 8 bells) – INT.-SIG.: The first bars of "Som en rejselysten Fløde" composed by Carl Nielsen:



Message to Listeners: Radio Denmark is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible short wave service – V. by letter or QSL-card – PUB.: "Voice of Denmark" (quarterly) mailed upon request.

FAROE ISLANDS (Danish Territory)

L.T.: GMT – Pr.L.: Faroese.

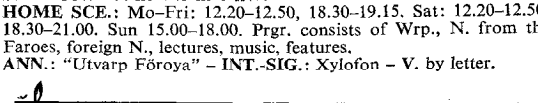
UTVARP FØROYA

ADDR.: Torshavn – Te.: 2437 – Telex: 26 – L.P.: Mgr.: N. J. Arge.

STATION: 584 kc 513 m 5 kW.

HOME SCE.: Mo–Fri: 12.20–12.50, 18.30–19.15. Sat: 12.20–12.50, 18.30–21.00. Sun 15.00–18.00. Prgr. consists of Wrp., N. from the Faroes, foreign N., lectures, music, features.

ANN.: "Utvarp Føroya" – INT.-SIG.: Xylofon – V. by letter.



FINLAND

L.T.: GMT+2 h – Pr. L.: Finnish, Swedish.

OY YLEISRADIO AB (Go.) – FI.: By license payments. Telex: 12-735 – ADDR.: Unioninkatu 16, Helsinki. Cable: Yleisradio. Te.: 30691 – L.P.: Dir. Gen.: E. Sundström. Dir. Finnish Prgr.: J. Koskiluoma. Dir. Swedish Prgr.: C. Schildt. Dir. Tec.: TV-Prgr.: V. Zilliacus

HOME SERVICE

FINNISH NETWORK: W 04.30–06.10, 08.45–12.10, 14.00–21.00 (Sat 08.45–22.00). Sun 05.30–21.00.

L-M waves	kc	m	kW		kc	m	kW
Lahti	254	1181	200	Helsinki III	845	355	0.2
Oulu	433	693	10	Helsinki II	1412	212	2
Joensuu	520	577	1	Turku II	1412	212	0.4
Kuopio	755	397	20	Tampere	1421	211	1
Ylivieska	836	359	10	Pori	1484	202	1

FM	Mc	kW		Mc	kW		Mc	kW
Iisalmi	87.7	0.7	Rauma	92.0	0.3	Ylivieska II	96.1	5
Pori I	87.7	15	Kemi	92.2	10	Kuopio II	96.2	25
Utsjoki	87.9	0.01W	Jyväskylä	92.5	25	Kotka	96.4	0.3
Ähtäri II	88.0	1	Iisalmi II	92.8	0.7	Rovaniemi	96.7	10
Taivalkoski	88.3	30	Lapua II	93.1	60	Pihtipudas	97.0	10
Forssa	88.3	0.3	Tammis. II	93.1	3	Tammis. I	97.0	3
Mikkeli I	88.9	10	Koli II	93.4	15	Oulu II	97.3	0.6
Loviisa	89.2	0.05	Tampere I	93.7	45	Pyhätunturi	97.6	15
Kilpisjärvi	89.4	0.01W	Ylivieska I	94.0	10	Pietarsaari	97.6	10
Mänttä	89.8	0.1	Helsinki II	94.0	40	Lahti II	97.9	15
Koli I	90.1	15	Kajaani I	94.3	40	Pello	98.2	15
Lapua I	90.1	60	Turku I	94.3	25	Turku II	98.2	25
Oulu I	90.4	25	Kristiina I	94.6	10	Kaunispää	98.8	15
Tampere II	90.7	45	Mikkeli II	94.6	10	Kajaani II	98.9	40
Joutseno	90.7	25	Ähtäri I	94.9	3	Pori II	99.4	3
Kristiina II	91.0	10	Sammaltunt.	95.2	15	Kokkola	99.7	10
Maarianh.	91.3	5	Vaasa I	95.2	25	Savonlin. II	99.1	0.7
Kuopio I	91.6	25	Lahti I	95.5	40			
Helsinki I	91.9	40	Savonlin. I	95.8	10			

N., Wrp.: W 04.30, 06.00, 09.30, 10.30, 14.55, 17.00, 20.00. Sun 06.30, 10.30, 17.00, 20.00 – Wrp.: 06.00(Sun 06.30), 10.30, 17.00, 20.00.

BILINGUAL NETWORK: (Finnish & Swedish).

W: 04.30–06.10, 08.50–12.10, 14.00–21.00. Sun 05.30–21.00.

M.W.	kc	m	kW		kc	m	kW
Helsinki I	557	539	100	Turku I	962	312	100
Pietarsaari	1484	202	1	Vaasa	1241	242	25
Tammisaari	1484	202	0.2				

Short Wave: Pori OIX7 6120 kc 49.02 m 15 kW.

FM:	Mc	kW		Mc	kW		Mc	kW
Helsinki II	94.0	40	Pietarsaari	97.6	10	Tammis. II	93.1	3
Kristiina II	90.1	10	Pori II	99.4	3	Turku II	98.2	25
Loviisa	89.2	0.05				Vaasa II	93.1	25

Swedish Program: N.: W: 04.40, 06.10, 09.35, 10.40, 14.55, 17.20, 20.10. Sun: 06.40, 10.40, 17.20, 20.10 – Wrp.: 06.10 (Sun 06.40), 10.40, 17.20, 20.10 – Wrp.: for seafarers 11.00 (also on 254, 433 kc), 16.55 (Finnish), 17.15 (Swedish).

Additional Swedish Prgr.: 11.00–12.10 (Tues, Fri), 14.35–14.50 (Mo, Fri), 16.00–17.55 (Mo, Wed, Fri), 17.30–18.10 (Tues), 17.30–1830 (Thurs, Sat), 20.20–21.00 (Tues, Fri), 20.20–20.35 (Wed).

FM Stations only: 16.00–16.55 Sun, Tues, Thurs; 17.30–18.15 Mo; 17.30–18.30 Wed; 17.30–18.05 Fri; 16.05–16.55 Sat.

Exclusively Swedish Prgr.'s: FM: Mariehamn 91.3 Mc 5 kW.

FOREIGN SERVICE

STATIONS: Pori.

OIX7 6120 kc	49.02 m	15 kW	OIX8 11805 kc 25.41 m 10 kW
OIX2 9555 –	31.40 –	15 –	OIX4 15190 – 19.75 – 100 –

TO EUROPE

On 6120 kc: W 04.30–06.20, 08.45–12.10, 14.00–21.00. Sat 04.30–06.20, 08.45–22.00. Sun 05.30–21.00 relay Home Sce. in Finnish & Swedish (Bilingual netw.).

On 9555/11805/15190 kc: Sun, Wed, Thurs, Sat 16.00–18.30, Mo 16.30–18.30, Tues 16.00–18.20, Fri 16.30–18.05.

On 9555/11805 kc: W 06.00–06.30, 14.50–15.00. Sun 06.30–06.50.

Swedish: Tues 17.30–18.20. Wed 17.40–18.30, Fri 17.30–18.05, Sat 17.30–18.30 – **Prgr. for seamen in Finnish & Swedish:** Sun 17.30–18.30 – All other times Finnish.

Repeat for Europe on 9555, 11805 kc, for No. America on 15190 kc (same prgr. as to Europe 16.00–18.30):

Sept.-May: Sun, Thurs, Fri 11.30–14.00, Tues 12.00–14.00, Wed 11.30–13.50, Sat 12.00–13.30.

May-Sept.: Sun, Wed, Thurs, Sat 20.30–23.00, Mo 21.00–23.00, Tues 12.00–14.00, Wed 11.30–13.50, Sat 12.00–13.30.

ENGLISH for Europe:

On 9555, 11805, 15190 kc: Mo 16.00–16.30 "Finlandia Mixture", Fri 16.00–16.30 (also 21.00–21.30 on 6120 kc): 1st & 3rd Fri.

DX Prgr. "Around the World", other Fri "Musical Mailbag".

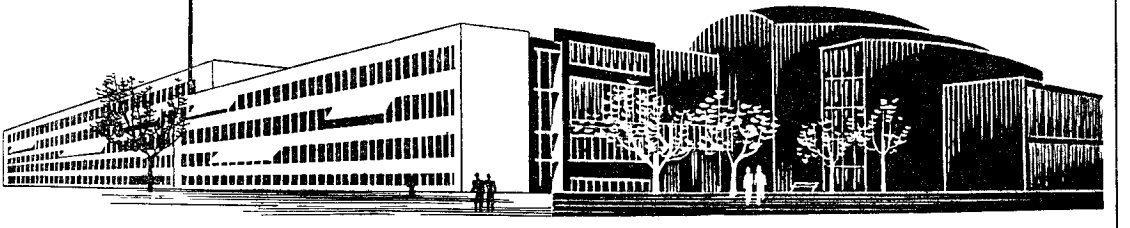
Repeat for Europe on 9555/11805 kc, for No. America on 15190 kc.

Sept.-May: Tues, Sat 11.30–12.00 – **May-Sept.:** Mo, Fri 20.30–21.00.

ANN.: Fi.: "Suomen Yleisradio" followed by prgr. ann. (all stations).

Listen to
THE VOICE OF DENMARK

The Danish short wave transmissions are beamed to North America, South America, Africa, India and the Far East



To North America on 31.51 m – 9.520 kc/s.
Daily 1.30 – 2.30 and 3.00 – 4.00 GMT. E.S.T.: 8.30 – 9.30 and 10.00 – 11.00 p. m.
DX-bulletin: Wednesdays about 2.20 a. m. and 3.50 a. m. GMT.

To South America on 19.78 m – 15.165 mc/s.
Mondays, Wednesdays and Fridays 22.30 – 23.30 GMT.

To Far East, Australia and New Zealand on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 9.00 – 10.00 a. m. GMT.
DX-bulletin: Thursdays 9.50 – 10.00 a. m. GMT.

To South Asia on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 14.30 – 15.30 GMT.
DX-bulletin: Thursdays 15.20 – 15.30 GMT.

To North Africa and Near East on 19.78 m – 15.165 mc/s.
Daily 18.30 – 19.30 GMT.
DX-bulletin: Tuesday about 19.20 GMT.

To South Africa on 19.78 m – 15.165 mc/s.
Daily 19.45–20.45 GMT.
DX-bulletin: Tuesday about 20.35 GMT.

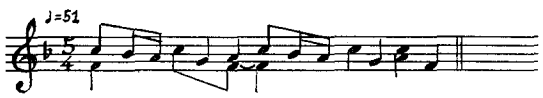
Special broadcasts to Danish ships daily 06.30–07.00 GMT. Far East 19.78 m–15.165 kc/s, 14.00 – 14.30 GMT. South Asia 19.78 m – 15.165 kc/s, 16.00 – 16.30 GMT. Mediterranean and Middle East 19.78 m – 15.165 kc/s, 22.00 – 22.30 GMT. South America 19.78 m – 15.165 mc/s, and 01.00 – 01.30 GMT. North America 31.51 m – 9.520 kc/s.

Listeners all over the world are invited to send reception reports together with their criticisms and programme suggestions to

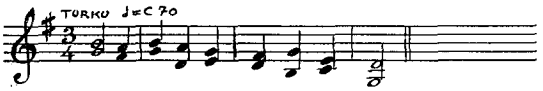
the **SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK**

Answer by letter or QSL-card

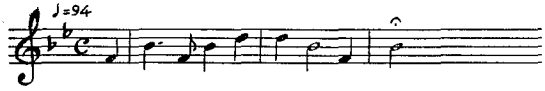
Fi. and Sw.: "Suomen Yleisradio, Finlands Rundradio" (Helsinki, Turku, Vaasa and Pietarsaari). English: "Suomen Yleisradio – Finlands Rundradio – This is the Shortwave Section of the Finnish Broadcasting Company in Helsinki, the capital of Finland".
INT.-SIG.: Every weekday at 08.45: Normal-a.
Lahti and Helsinki: The int.-sig. is based on an old Finnish melody the "Kantele melody".



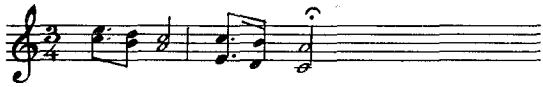
Turku: A fragment of "Ergo plebs finnonica", the hymn of St. Henrik.



Vaasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of the lake Kalavesi:



V. by QSL-card – **PUB.: Programme-schedules to listeners**: We distribute only duplicated schedules of the shortwave prgr., containing the same information as given in the World Radio Handbook. Can be obtained by writing to "DX-Editor" of the Finnish Broadcasting Company.

FRANCE

L.T.: GMT+1 h – **Pr. L.**: French.
RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)
Central Service:
ADDR.: 107, rue de Grenelle, Paris 7ème. **Cable**: Radiodi, Paris. **Te.**: INV 42-60 – **The Regional Services**: 32-34, rue Ulysse Gavon, Bordeaux – 36, Bd. de la Liberté, Lille – 6 Bd. Victor Hugo, Limoges – 20 Quai Gailleton, Lyon – 2, allée Ray Grassi (Parc Chanot), Marseille – 6, avenue Hippolyte Maringer, Nancy – 9, avenue Janvier, Rennes – Place de Bordeaux, Strasbourg – 78, allées Jean Jaurès, Toulouse.
L.P.: Dir. Gén.: M. Robert Bordaz. Dir. Gén. Adjoint: M. Jean Guillon. Dir. Gén. Adjoint, Dir. des Services Techniques: M. Marien Leschi. Chef du Département des Affaires Générales et des Relations Publiques: M. Charles Bonami. Secrétaire Général des Conseils et Comités de Prgr.: M. Georges-Emmanuel Clancier. Chef du Service de la Recherche: M. Pierre Schaeffer. Chef du Service de l'Inspection Générale: M. Maurice Lenoble. Directeur de l'Administration Générale: M. Pierre Mauget. Directeur des Programmes Artistiques de Radiodiffusion: M. Paul Gilson. Directeur du Prgr. Paris-Inter (France I): Mme Agathe Mella. Directeur du Prgr. Régional (France II): M. Jean-Vincent Brechignac. Directeur du Prgr. National (France III): M. Henry Barraud. Directeur du Prgr. Haute-Fidélité (France IV): M. Jean Tardieu. Directeur des Prgr. de Télévision: M. Albert Ollivier. Directeur des Journaux de la R.T.F.: M. André Gerard. Directeur des Relations Extérieures: M. Jaques Flaud. Directeur Adjoint des Relations Extérieures et Prgr. Internationaux de Radiodiffusion: M. Michel Robida. Prgr. Internationaux de Télévision: M. Georges Croses. Emission vers l'Extérieur: M. Jean Delannoy. Directeur des Services Extérieurs de l'Exploitation: M. Claude Mercier.

HOME SERVICE

PARIS INTER (France I):

	kc	m	kW
Allouis	164	1829	250/ 500*
Paris III	584	514	1
Grenoble II	1484	202	0.05
Montpellier II	1484	202	0.2
Perpignan	1484	202	1

	kc	m	kW
Brest	1493	201	0.05
Marseille III	1493	201	1
Strasbourg III	1493	201	0.05
Toulouse III	1493	201	1
Nice I	1554	193	60
Nimes I	1594	188	1

* 500 kW D 05.15–23.00.

TELEVISION IN FINLAND

The first TV test transmission by wire was made in Finland in the year of 1950.

Finland's Television inaugurated regular programmes on Jan. 1st, 1958. This happened after a period of technical trials.

In the course of one year, 1958, Finland's Television put into operation four new TV transmitters to cover one third of the population. At the beginning of 1963 the number of transmitters increased to 23, and 85 % of the population is now reached by TV.

The number of TV viewers is rapidly increasing. On Jan. 1st, 1959 they were 7.757, two years later the figure amounted to 92.000, at the beginning of 1962 there were 190.000 licences, and at the end of September 1962, 285.000.

Finland's Television is on the air 6-7 hours a day.

A TV studio centre is under construction. As a first part of it a large studio, capacious enough for TV play production, was completed in 1961. Another large studio is under construction.

For live broadcasts in different parts of the country there are two outside broadcasting units in use.

LISTEN TO FINLAND

FINLANDIA MIXTURE tells you what Finland is apart from the country of the thousands lakes, the "sauna", and the midnight sun. Every Monday at 16.00–16.30 G.M.T.

AROUND THE WORLD gives you the latest DX-news.
The first and third Friday of the month at 16.00–16.30 G.M.T.

MUSICAL MAILBAG, listeners' request programme.
All other Fridays at 16.00–16.30 G.M.T.

15190 kc/s – 19,75 m. 11805 kc/s – 25.41 m.
9555 kc/s – 31.40 m.

For more details see page 74

RADIO

THE FINNISH BROADCASTING CO., LTD.

PLUS DE 100 ÉMETTEURS THOMSON CFTH HOUSTON SONT EQUIPÈS DE VAPOTRONS

EN FRANCE

Nom des Stations	Modulation d'amplitude	Modulation de Fréquence	Télévision
Amiens (Bouvigny)	–	16/18 kW (×3)	20 kW (×2)
Brest (Roc Tredudon)	–	–	10 kW
Brest (Quimerch)	25/30 kW OM (×2)	–	–
Caen (Mont-Pinçon)	–	16/18 kW (×3)	–
Grenoble (Ville)	20 kW OM	–	–
Issoudun	100kW OC(×8)	–	–
Le Mans (Mayet)	–	–	10 kW
Lyon (Tramoyes)	20 kW OM	–	–
Marseille (Camargue)	600 kW OM (2×300)	–	–
Marseille (Realtort)	135 kW OM	–	–
Metz (Luttange)	–	3×16/18 kW	–
Nancy (Nomeny)	100 kW OM (×2)	–	–
Paris (Tour Eiffel)	–	4×16/18 kW	–
Paris (Villebon)	100 kW OM	–	–
Pic du Midi (2.780 m)	–	–	20 kW
Puy-de-Dome(1 465m)	–	–	10 kW
Reims (Hauvillers)	–	–	20 kW
Rennes (St-Pern)	–	–	10 kW
Rouen (Les Essarts)	–	–	10 kW
Strasbourg (Sélestat)	100 kW OM (×3)	–	–
Ste-Assise (P. et T.)	6×60 kW OC à B.L.I. (trafic intercontinental)		

HORS DE FRANCE

Nom des Stations	Ondes	Puissance inst par CFTH (kW)	Type CFTH
Abidjan (Rép de la Côte d'Ivoire)	O C.	100	TH. R. 875
Abidjan (Rép. de la Côte d'Ivoire)	O.C.	25/30	TH. R. 835
A.C.F.L. – New York (USA)	O.C.	50×4	TH. R. 775
Alger – Oued-Fayet (Algérie)	O.C.	50×4	TH. R. 775
Alger – Créa (Algérie)	T.V.	20	TH. T. 970
Andorradio (Andorra)	O.M.	100	TH. R. 755
Bamako (République du Mali)	O.C.	50	TH. R. 775
Brazzaville (Rép. du Congo)	O.C.	25/30	TH. R. 1308
Brazzaville (Rép. du Congo)	O.C.	50×2	TH. R. 775
Constantine (Algérie)	O.M.	25/30/×2	TH. R. 1392
Dakar-Rufisque (Rép. Sénégal)	O.M.	200	TH. R. 856
Felsberg « Europe N° 1 »	O.L.	400 (2×200)	TH. R. 855
Felsberg « Europe N° 1 »	O.L.	600 (2×300)	TH. R. 955
Heusweiller (Allemagne)	O.M.	100	TH. R. 755
Khartoum (Rép. du Soudan)	O.M.	100	TH. R. 755
Léopoldville (Rép. Congo ex Belge)	O.C.	50	TH. R. 755
Léopoldville (Rép. Congo ex Belge)	O.C.	100	TH. R. 875
Ljubljana (Yougoslavie)	O.M.	135	TH. R. 721
Martinique (Lelamantin)	O.M.	50/60	TH. R. 776
Meknès – Sebaa-Aioun (Maroc)	O.M.	140×2	TH. R. 721
Meknès – Sebaa-Aioun (Maroc)	O.M.	25/30×3	TH. R. 1392
Meknès – Sebaa-Aioun (Maroc)	O.C.	50	TH. R. 775
Monte-Carlo (Monaco)	O.M.	200×2	TH. R. 856
Monte-Carlo (Monaco)	O.M.	600 (2×300)	TH. R. 956
Monto-Carlo (Monaco)	O.C.	100	TH. R. 875
Motala (Suède)	O.L.	600 (2×300)	TH. R. 955
Oran Tessala (Algérie)	T.V.	20	TH T. 970
Oran les Trembles (Algérie)	O.M.	25/30×4	TH. R. 1392
Ousumbura (Ruanda-Urundi)	O.C.	50	TH. R. 775
Pristina (Yougoslavie)	O.M.	100	TH. R. 755
Saigon (Viet-Nam)	O.M.	50	TH. R. 776
Saigon (Viet-Nam)	O.C.	50	TH. R. 775
Sarajevo (Yougoslavie)	O.M.	100	TH. R. 755
Tananarive (Madagascar)	O.C.	100	TH. R. 875
Tel-Aviv (Israël)	O.M.	100×4	TH. R. 755
Tel-Aviv (Israël)	O.C.	100	TH. R. 875
Titograd (Yougoslavie)	O.M.	100	TH. R. 755
Tunis (Tunisie)	O.M.	600 (2×300)	TH. R. 956
Zagreb (Yougoslavie)	O.M.	135	TH. R. 721

COMPAGNIE FRANÇAISE THOMSON-HOUSTON - GROUPE ÉLECTRONIQUE

173 Boulevard Haussmann, Paris (8) - Tel. ELY 83.70

DIVISION RADIODIFFUSION-TÉLÉVISION-TÉLÉCOMMUNICATIONS, 16 rue du Fossé-Blanc, Gennevilliers (seine)

France

FM: Lille II 94.7 Mc 12 kW – Paris (Grenelle) 93.35 Mc 5 kW – Metz II 99.8 Mc 12 kW – Mulhouse II 95.7 Mc 12 kW.
D. PRGR.: On 164 kc: 24 h exc. Fri 03.18–05.13. Other tr. D 05.13–23.00. **On 6175** kc at 05.15–23.00.
N.: W 05.15, 06.15, 07.15, 08.15, 09.15, 10.15, 10.57, 13.15, 14.15, 15.15, 16.15, 17.15, 18.15, 20.15, 21.15, 22.15. Sun 05.15, 06.15, 07.15, 08.15, 09.15, 10.15, 10.50, 13.15, 14.15, 15.15, 17.15, 18.15, 20.15, 21.15, 22.15. D 00.15, 01.15, 02.15, 03.15, 04.15 – **"Inter France Europe":** Mo 18.50 – **"Route de Nuit":** D 00.00–05.13 (exc. Fri 03.18–05.15).

PRGR. REGIONAL (France II):

	kc	m	kW		kc	m	kW
Lyon I	602	498	100	Nice II	1403	214	20
Marseille I	674	445	150	Rouen	1403	214	20
Rennes I	710	422	150	Pau	1403	214	20
Limoges I	791	379	100	Bayonne	1493	201	4
Nancy I	836	359	150	Nantes II	1493	201	0.05
Paris I				Amiens	1484	202	0.05
(Villebon)	863	348	150	Colmar	1484	202	0.05
Toulouse I	944	318	100	Dijon	1484	202	1
Strasbourg I	1160	259	150	Poitiers	1484	202	1
Bordeaux I	1205	249	100	Metz	1594	188	0.05
Lille I	1376	218	150	Mulhouse	1594	188	0.05
Brest II	1403	214	20	Toulon	1594	188	0.05
Montpellier I	1403	214	10				

FM: Caen III 91.5 Mc 12 kW – Pic de l'Ours 96.3 Mc 2 kW.
D. PRGR.: D 04.28–21.58(Sun 22.00). **N.:** 04.30, 05.30, 07.00, 12.00, 19.00, 21.10 (W), 21.58 (Sun).

PRGR. NATIONAL (France III):

	kc	m	kW		kc	m	kW
Bayonne II	539	557	0.05	Strasbourg II	1277	235	100
Bordeaux II	1070	280	20	Clermont-Ferr.	1349	222	20
Marseille II	1070	280	20	Grenoble I	1349	222	20
Paris II	1070	280	100	Limoges II	1349	222	20
Brest I	1241	242	20	Nantes I	1349	222	10
Lille II	1241	242	20	Toulouse II	1349	222	20
Lyon II	1241	242	20	Annemasse	1484	202	1
Nancy II	1241	242	20	Caen	1484	202	0.05
Nice III	1241	242	20	Saint-Brieuc	1493	201	0.05
Rennes II	1241	242	24	Besançon	1493	201	0.18

FM: Besançon II 97.7 Mc 2 kW – Bourges II 94.9 Mc 12 kW – Caen II 99.6 Mc 12 kW – Clerm. Ferr. 90.4 Mc 2 kW – Dijon II 99.2 Mc 2 kW – Gex II 89.6 Mc 2 kW – Limoges II 93 Mc 12 kW – Lyon II 88.8 Mc 12 kW – Marseille II 99 Mc 12 kW – Paris II 97.6 Mc 12 kW – Pic de l'Ours 88.7 Mc 2 kW – Reims II98.8 Mc 12 kW – Toulouse II 87.9 Mc 2 kW.
D. PRGR.: 05.00–23.00 (Wed 08.13–10.55 break in the tr.'s exc. for Paris II 1070 kc).
"Ici New York": Mo–Fri 18.06 – **The High Mass:** Sun 09.00–10.00 is relayed on **7160 kc – Arabic:** D 05.00–05.58 on 1070/1277 kc (Marseille, Strasbourg).

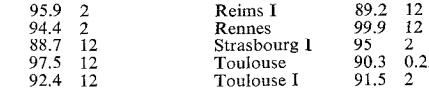
PRGR. "HAUTE-FIDELITE" (France IV) FM: 06.00 (Sun 08.00) – 23.00.

	Mc	kW		Mc	kW
Besançon I	92.9	2	Marseille I	94.2	12
Bordeaux I	98.1	2	Metz I	89.7	12
Bourges I	91.8	12	Mulhouse I	91.6	12
Brest I	93	12	Nancy	96.9	0.25
Caen I	95.6	12	Nantes I	98.9	12
Carcass. I	90.9	12	Paris I	90.35	12
Clerm. Ferr. I	95.9	2	Pic de l'Ours	99.6	2
Dijon I	95.9	2	Reims I	89.2	12
Gex I	94.4	2	Rennes	99.9	12
Lille I	88.7	12	Strasbourg I	95	2
Limoges I	97.5	12	Toulouse	90.3	0.25
Lyon I	92.4	12	Toulouse I	91.5	2

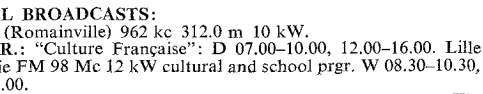
SPECIAL BROADCASTS:
Paris IV (Romainville) 962 kc 312.0 m 10 kW.
D. PRGR.: "Culture Française": D 07.00–10.00, 12.00–16.00. Lille Academie FM 98 Mc 12 kW cultural and school prgr. W 08.30–10.30, 18.30–21.00.
ANN.: For "Paris Inter – France I", "Prgr. Regional – France II", "Prgr. National – France III" and "Prgr. Haute-Fidélité – France IV" at opening and close down "La Marseillaise" followed by "Ici Paris, Radiodiffusion-Télévision-Française".

INT.-SIG.:

France I:

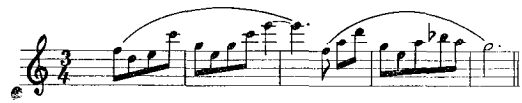


France II:



France III:

France IV:



PUB.: Weekly: Prgr.schedule – **F.PL.:** 11 FM st.'s for France III, 6 FM st.'s for France IV.

FOREIGN SERVICE

Short Wave Centre Allouis and Issoudun: 13 tr's each 100 kW, 1 tr. 10 kW.

EUROPEAN SERVICE

Bulgarian kc
19.00–19.45 7240, 9755

Czech/Slovak
19.00–20.00 5955

English
07.45–08.00* 7160
22.00–23.00 1376

French
17.30–17.50a) 6145, 7160
20.00–21.00 5955, 7160, 6145, 9620

German
18.00–19.00(W) 1277/6145
18.40–19.30 (Sun.) 1277

Greek
12.15–12.45 11920, 15160

Hungarian
18.15–19.00 5955, 9570

Polish
08.00–08.20(W) 1376
10.00–11.00b) 9560
17.00–17.15* 7160, 9570
17.30–18.00 1376
17.30–17.45(Sun) 1376
19.00–20.00 6145, 7160, 9570

Portuguese
07.30–07.45 7160
19.00–19.30 7280, 9620
19.30–19.45* 7280, 9620

Rumanian
18.15–19.00 7280/9585

Russian
16.00–17.00 7280, 9620, 11885, 15160

Serbo-Croatian
18.00–19.00 7160, 9755

Spanish
07.15–07.30* 7160
21.00–21.45 5955, 7160
21.45–22.00* 5955, 7160
22.00–22.45(W) 944

Yiddish
21.15–21.35(W) 9620/11845

*) French lessons (W). a) Rel. prgr. Sun only. b) Mass, Sun only.

OVERSEAS SERVICE:
I=French Polynesia, New Caledonia, New Hebrides; II=Africa, III=Antarctica; IV=Antilles, Guiana, St. Pierre et Miquelon; V=Far East; VI=Indian Ocean; VII=Middle East; VIII=Canada; IX=Latin America.
All prgr.'s in French exc. where indicated.

Time	Area	kc
06.00–06.45	I	6145, 7240, 11885
07.00–08.00	II	11885, 17765, 21580
05.45–06.15[1]	III	9560
10.30–11.00	IV	17765, 21580
12.15–12.45	II	17765, 21580
13.00–15.00[2]	V	15245, 17765, 21620
15.15–16.15	VI	17765, 21620
16.30–18.00	VII	9755, 11845, 15245
17.30–17.50[3]	VIII	15160, 17850
20.00–20.57	II	9755, 11845, 11885
23.00–23.30	V	9560, 11885
23.15–02.15[4]	IX	9585, 11845, 11920
23.30–01.00	IV	9560, 11885

[1] Mo only, [2] English 13.00–13.45 (French lesson 13.30–13.45), French 13.45–14.45, Vietnamese 14.45–15.00, [3] exc. Sat/Sun, [4] Portuguese 23.15–24.00 (French lesson 23.45), French 00.00–00.30, Spanish 00.30–02.15 (French lesson 00.30).

Arabic and Kabyle a) to Middle East. b) to No. Africa.

Times	kc	Times	kc
04.00–05.00[1]a*	1070, 1277, 11845, 7280, 9560	13.00–16.00[1]b	6145, 7280, 9585 11920, 15130
05.00–06.45[1]a	9560, 11845	16.00–18.00[1]a	9585, 11920, 15130
06.00–08.00[1]b	7280, 9585, 11920, 15130	18.00–19.00[1]a	11920, 15130, 15245
08.00–09.00[2]b	7280, 9585,		
09.00–11.00[2]b	11920, 15130	19.00–20.00[2]b	9585
11.00–12.00[1]b	7280, 9585, 15130	20.00–21.00[1]b	7280, 9585, 11920
12.00–13.00[1]b	962, 7280, 11920	21.00–23.00[1]b	7280, 9585, 11920
12.00–13.00[2]b	6145, 9585		

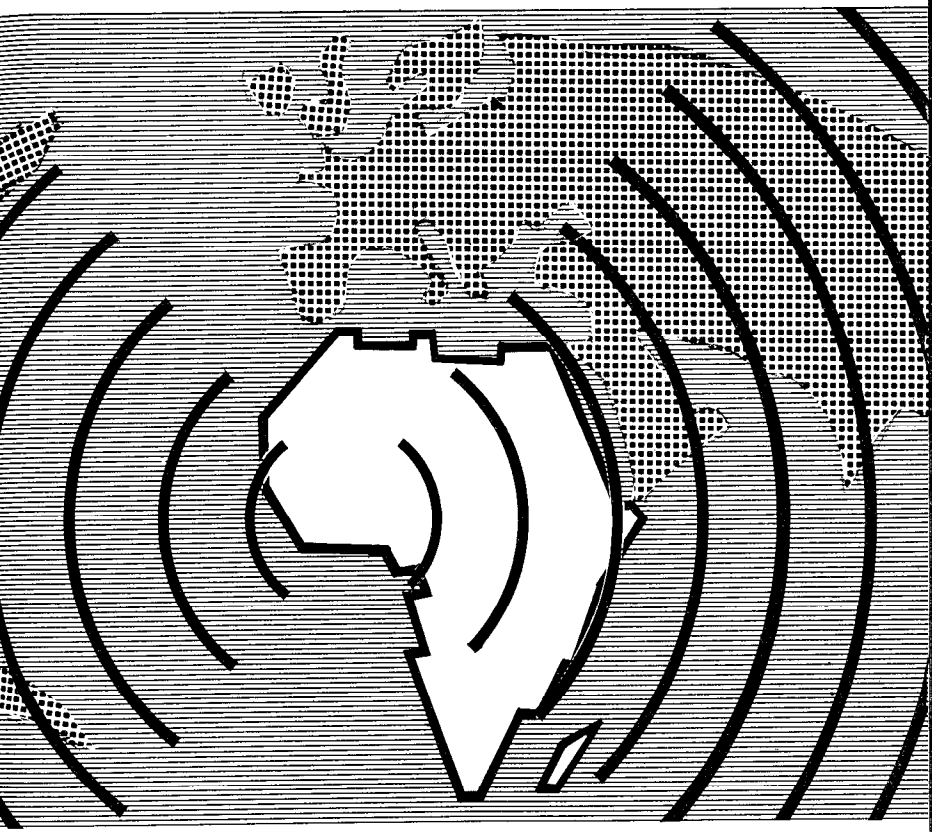
[1] Arabic. [2] Kabyle.

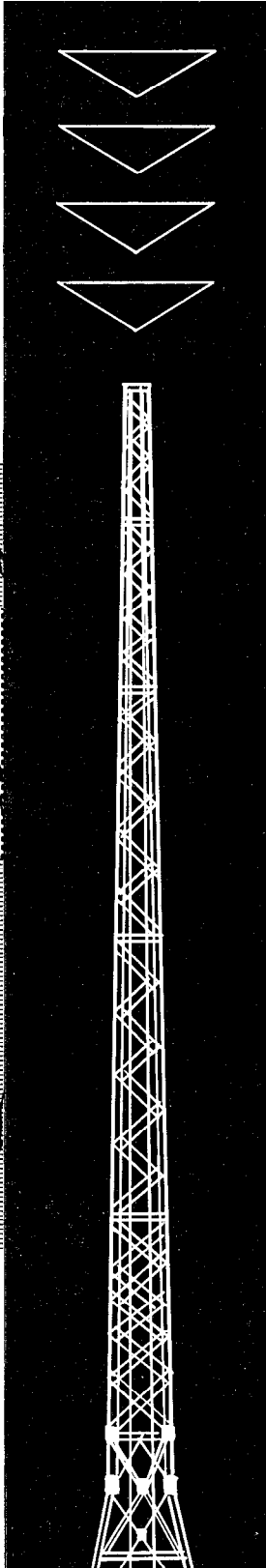
RELAYS OF FRENCH HOME SERVICES
d) to Europe & Africa; e) Africa; f) Europe; g) Canada; h) Africa, Middle East.

OCORA

OFFICE DE COOPÉRATION RADIOPHONIQUE

46 RUE D'AMSTERDAM, PARIS 9e, PIG 99-39





- Cameroun
  - yaoundé
  - douala
  - garoua
  - buea
- Centrafrique
- Congo
- Côte d'Ivoire
- Dahomey
- Gabon
- Haute-Volta
- Mauritanie
- Madagascar
- Niger
- Tchad
- Sénégal

Times	Areas	kc	Programme
05.14–23.00	d	6175	France I
07.00–07.30	e	11845, 21620	France II*
09.00–10.00 (Sun)	f	7160	France III **
13.50–17.00 (Sun)	e	21580	France II***
18.15–18.45	g	15160	France I****
19.00–19.25	h	15130, 11845	France II*

* News (Journal Parlé). ** Catholic Mass. *** Sport & Music. **** Paris vous parle.

ANN.: "Allo... (name of area) Paris vous parle" – **V.** by QSL-card Re. to R.T.F., 107, rue de Grenelle, Paris.

The information above concerns France Metropolitan. For the other territories of République Française outside Europe: Martinique, Guadeloupe, Guiana, Reunion, Somali, Comores, New-Caledonia, Tahiti, Saint-Pierre et Miquelon, the broadc. service is supported by R.T.F. which also operates Radio Brazzaville (Congo). See the counties.

O.C.O.R.A. (Office de Coopération Radiophonique).
an organisation the purpose of which is improvement and development of Broadcasting and Television in "les Etats Independants d'Afrique d'expression Française".
ADDR.: 46, rue d'Amsterdam, Paris 9è. **Cable**: O.C.O.R.A. **Te.**: PIGalle 99-39 – **L.P.**: Pres. of the Board of Adm.: M. Bordaz. Dir. Gen.: M. R. Pontillon. Secr. Gen.: M. J. Lansier.
STATIONS: R. Sénégal (Darkar-Ziguinchor), R. Mauritania (Nouakchott), R. Mali (Bamako-Mopti), R. Niger (Niamey), R. Cote d'Ivoire (Abidjan), R. Dahomey (Cotonou), Radiodiff. de la Republique du Togo (Lomé), R. Haute Volta (Ouagadougou), R. Gabon (Libreville), R. Tchad (Fort Lamy), R. Bangui (Bangui), Radiodiffusion du Cameroun (Yaoundé, Douala, Garoua), R. Madagascar (Tananarive), R. Congo (Brazzaville).

AMERICAN FORCES NETWORK, EUROPE (Mil.)
ADDR.& L.P.: See Germany – **STATIONS**: Bal Manoir 98.4 Mc, Bordeaux 92.5, Braconne 89.2, Bussac 96.9, Captieux 92.8, Chalons S/Marne 96.3, Chambley 95.2, Chateauroux 90.8, Chaumont 97.4, Chinon 93.4, Croix Chapeau 93.8, Dreux 99.05, Etain 99.0, Evreux 88.4, Fontainebleau 98.1, Fontenet 95.4, Ingrandes 99.2, Laon 88.4, Metz 87.8, *Orleans 90.3, Orly 99.9, Perigueux 88.7, Phalsbourg 91.7, *Poitiers 97.2, St. Nazaire 99.8, Saumur 87.7, Toul Rosieres 93.35, Trois Fontaines 94.0, *Verdun 92.2, Vitry-le Francois 93.25 Mc. *Studios – **D. PRGR.**: 05.00 (Sun 06.00)–00.05.

GERMANY

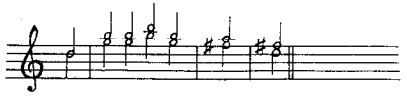
GERMAN FEDERAL REPUBLIC

L.T.: GMT+1 h – **Pr.L.**: German.
FI.: By license payment and adv. exc. NDR and WDR.
ARBEITSGEMEINSCHAFT DER ÖFFENTLICH-RECHTLICHEN RUNDFUNKANSTALTEN DER BUNDESREPUBLIK DEUTSCHLAND (ARD)
Broadcasting:
Administration for Broadc. and Television: Intendant D. Klaus v. Bismarck, Westdeutscher Rundfunk, Köln, Wallrafplatz 5. – **Members:** Bayerischer, Hessischer, Norddeutscher, Saarländischer, Südwestdeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Deutschlandfunk, Köln, Deutsche Welle, Köln. And as guest-partaker at meetings: RIAS Berlin.
Fernseh Koordinationsbüro: Staatssekretär a.D. Dr. K. Mohr, Referent für Eurovision: H. v. Plato, München 23, Leopoldstr. 10.
Fernsehbeirat: Abgeordneter H. Müller, Sösepromenade 18, Osterode/Harz – **Institut für Rundfunktechnik:** Floriansmühlstr. 60, München – Freimann.
Television: Arbeitsgemeinschaft der Öffentlich-Rechtlichen Rundfunkanstalten der Bundesrepublik (ARD): See Sound Broadcasting.

DEUTSCHLANDFUNK (Gemeinnützige Anstalt des öffentlichen Rechts).
Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschlands vermitteln.
ADDR.: Köln-Marienburg, Lindenallee 7. **Te.**: 380161/62.
L.P.: Intendant: Dr. H. F. G. Starke. Dir. Aktuelles Programm: J. Viehöver. Dir. Kulturelles Programm: Dr. J. Petersen. Verwaltungsdir. & Justitiar: Freiherr von Sell. Sendeleiter: E. Imelmann. Dir. Tec.: O. Scheffler.
STATIONS:

Hamburg	151 kc	1986.8 m	50 kW
Mainflingen	1538 –	195.0 –	300 –
Königslutter	755 –	397.3 –	100 –
Ravensburg	755 –	397.3 –	20 –

HOME SCE.: in German: 03.58–00.10.
N.: Every h on the h 04.00–17.00, 18.30, 20.30, 22.00, 23.30, 24.00. **"Deutschland-Echo"**: 18.00–18.30 – **"Die Woche in Deutschland"**: Sat 17.45–18.00 – **"Themen des Tages"**: 18.45–19.00 – **"Prisma der Welt"**: Mo, Wed, Fri 20.40–21.00.
ANN.: "Hier ist der Deutschlandfunk" – **INT.-SIG.**: "Du Land voll Lieb' und Leben" from the folksong "Ich hab' mich ergeben" (played on Celeste).



DEUTSCHE WELLE
ADDR.: Bruederstr. 1, Postfach 344, Köln – **Te.**: 20301 – **Telex**: 08/88/1942. – **L.P.**: Intendant Dr. Hans Otto Wesemann. Dir. Adm. Dr. Heinz Fellhaues. Dir. Tec.: Guenter Roessler.
STATIONS: Jülich-DMQ, 6 tr. 100 kW, 1 tr. 20 kW.

kc/s	m	kc	m	kc	m	kc	m	kc	m
5980	50.17	7205	41.64	9640	31.12	11925	25.16	17815	16.84
6015	49.88	7235	41.47	9735	30.82	11945	25.12	17845	16.81
6025	49.79	9545	31.43	11785	25.43	15205	19.73	17875	16.79
6100	49.18	9575	31.33	11795	25.43	15270	19.64	21650	13.86
6110	49.10	9605	31.23	11905	25.20	15410	19.47	21705	13.82
6145	48.82								

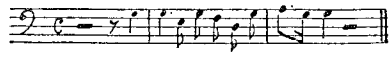
OVERSEAS SERVICE
Abbreviations: I=Far East, II=Japan, III=Middle East, IIIa=Turkey, IV=Africa, V=We. Africa, VI=So. America, VII=No. America East, VIII=C. America, IX=No. America West, X=East Europe.
GERMAN PROGRAMME:

H. of tr.	Area	kc	N.
06.45–09.45	I	11795/15275/21650	06.45, 09.35
09.45–12.45	II	15205/17815	09.45, 12.35
12.45–15.45	III	17875/21650	12.45, 15,35
16.00–19.00	III	9735/11795	16.00, 18.50
17.15–20.15	IV	11785/15275	17.15, 20.05
19.15–22.15	V	9605/11925	19.15, 22.05
22.30–01.30	VI	9735/11945	22.30, 01.20
00.00–03.00	VII	6100/9545/9640	00.00, 02.50
01.45–04.45	VIII	6145/9735	01.45, 04.35
03.00–06.00	IX	6100/9575/9640	03.00, 05.50

Comm.: After the first N. – **"Wie wir leben"**: Wed. – **"Unter uns gesagt"**: Wed. – **Folklore Music:** Tues., Sat. – **DX-Programme** (German and English): every 2nd Mo., Tues. of the month at 08.00, 11.00, 14.00, 17.15, 18.30, 20.30, 23.45, 01.15, 03.00, 04.15.
FOREIGN LANGUAGE PROGRAMME:

H. of tr.	Area	kc		N.
00.20–01.00	VII	6145/9605	**English**	00.22
01.00–01.40	VII	6145/9605	**French**	01.02
05.00–05.40	IX	6110/9735	**English**	05.02
06.00–06.30	IV	11795/15275	**English**	06.02
06.40–07.20	V	9605/11925	**French**	06.42
07.30–08.40	III	17845/21705	**English**	07.32/08.02
08.50–09.30	I	15410/17845/21705	**English**	08.52
10.20–10.50	III	15275/17845/21650	Persian	10.22
11.00–11.30	X	6145/7205/9735	Czech/Slovak	11.02
11.40–12.40	III/IV	15270/17845/21650	Arabic	11.42
13.00–13.30	I	15275/17845/21705	**English**	13.02
13.40–14.10	X	6110/7205/9735	Polish	13.42
14.20–14.50	X	6110/7235/9735	Hungarian	14.22
15.00–15.30	X	6110/7205/9735	Serbo/Croat	15.02
15.40–16.10	III	9545/11905	**English**	15.42
16.20–16.50	III	7205/9605/11905	Persian	16.22
16.55–17.25	IIIa	9605/11905	Turkish	16.57
17.35–18.15	IV	15275/17815	**English**	17.37
18.25–19.05	X	6025/7205	Russian	18.27
19.15–20.15	III	9735/11905	Arabic	19.17
20.30–21.10	IX	5980/9735	**English**	20.32
21.20–22.00	I	6015/7235/9735	**English**	21.22
22.50–23.30	VI	6015/9605/11795	Portuguese	22.52
23.30–00.10	VI/VIII	6015/9605	Spanish	23.32

ANN.: G:. "Hier ist die Deutsche Welle". – E.: "This is the Voice o Germany". – F.: "Ici la Voix de l'Allemagne". – Sp.: "Habla la Voz de Alemania". – P.: "Esta é a Voz de Alemanha".
INT.-SIG.: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card (10 min. prgr. details required) – **PUB.**: Monthly Prgr. sched. free on request.

DER BAYERISCHE RUNDFUNK
(Anstalt des öffentlichen Rechts). **AD.**: **W.**: 05.30–06.00, 08.55–09.35, Mo.–Fri. also 12.45–13.00, Tues., Wed., Thurs. 18.40–18.45. **ADDR.**:

DEUTSCHLANDFUNK

GEMEINNÜTZIGE ANSTALT DES ÖFFENTLICHEN RECHTS

Cologne-Marienburg, Lindenallee 7, Telephone 38 01 61

Medium Wave	**1538 kc/s**	**195,0 m**	**300 kW**
Medium Wave	**755 kc/s**	**397,0 m**	**100 kW**
Long Wave	**151 kc/s**	**1986,8 m**	**20 kW**

PROGRAMME SCHEDULE

GMT	
03.58	Chorale
04.00	News
04.05	Music
05.00	News
05.05	Comments
05.10	Service
05.15	Music
06.00	News
06.05	Music
07.00	News
07.05	Music
07.40	Education
08.00	News
08.05	News Review
08.15	Announcement of programmes
08.20	Music
09.00	News
09.05	Music
10.00	News
10.05	Music
10.30	Literary Word
11.00	News
11.05	Country Broadcast
11.15	Music
12.00	News
12.10	Announcement of programmes
12.15	Music
13.00	News
13.05	Music
14.00	News

GMT	
14.05	Cultural Word
15.00	News
15.10	Music
16.00	News
16.05	Announcement of programmes
16.10	Music
16.30	Education
16.50	Financial broadcast
17.00	News
17.05	International news review
17.15	Music
18.00	Political reports
18.30	News
18.45	Political comments
19.00	Evening programme
20.30	News
20.40	a) Foreign report, respectively b) serial
21.00	a) Music, respectively b) Cultural Word
21.30	Music
22.00	News
22.05	Announcement of programmes
22.10	Music
23.00	News
23.05	Music
00.00	News
00.05	End of the day
00.10	Close of broadcast

Saturdays, Sundays, and Holidays also:

Service, church, morning ceremony, political reports, interviews, sport broadcasts.

Germany

München 2, Rundfunkplatz 1 – **Cable:** Bayernfunk München – **Te** 59001. – **L.P.:** Intendant: Christian Wallenreiter. Prgr.-Coordinator: W. von Cube. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

HOME SERVICE

FIRST PRGR. on all frequencies: W. 04.30 (Sat., Sun. 05.00)–24.00 (exc. 08.55–09.35 m.w. only). *) night only. [1]) Passau. [2]) Augsburg, Landshut.

M. waves:	**kc**	**m**	**kW**		**kc**	**m**	**kW**
Bayreuth	520	577	0.2	Hof	1602	187	1
Kempten	520	577	0.2	Land./Isar	1602	187	20*)
Würzburg	520	577	0.2	Kirchheim	1602	187	20*)
1. power[1])	520	577	0.2*)	Coburg	1602	187	1
München	800	375	100	Regensburg	1602	187	1*)
2 1. power[2])	1484	202	1.0*)				
Nürnberg I	1602	187	20 day, 40 night.				

Short Wave: München-Ismaning 6085 kc 49.30 m 10 kW.

UKW:	**ch**	**Mc**	**kW**		**ch.**	**Mc**	**kW**
Berchtesgaden	3	87.8	0.3	Bamberg I	26	94.8	6
Dillberg I	6	88.9	12	Aschaffenburg I	29	95.6	17
München I	14	91.3	3	Ochsenkopf/ Fichtelgeb. I	30	96.0	50
Hühn. b. Hb.	16	91.9	6				
Bad Reichenh.	19	92.8	0.3	Hoher Bogen	33	96.8	30
Wendelstein I	22	93.7	100	Traunstein Hb.	37	98.0	2
Lindau	23	94.0	0.4	Kreuzb./Rhön I	38	98.3	10

N., Wrp.: 05.00 (W), 06.00, 07.00, 08,00 (W), 12.00, 16.00 (W), 18.45, 21.00, 23.00 – **"Echo der Zeit":** W. 17.30.

Night Prgr.: 00.00–04.20 (D) on 520 (Bayreuth, Kempten, Würzburg), 1602 kc (Nürnberg, Landau, Kirchheim, Hof, Coburg) and on FM: Lindau (ch 23), Hoher Bogen (ch 33), Traunstein (ch 37), Berchtesgaden (ch 3), Bad Reichenhall (ch 19), Wandelstein I (ch 22), Pfaffenberg (ch 29), Bamberg I (ch 26), Krcuzberg I (ch 38), Hühnerberg (ch 16), Dillberg I (ch 6) – **N.:** 00.00, 01.00, 02.00, 03.00, 04.00 – **Request Prgr.:** Sun. 13.30 (fortnightly), Wed. 19.15 – **T.S.:** 11.00, 17.00, 23.00. – **N. in English, French, German:** 08.00 – **Italian:** Sat. 08.05–08.35 (for Italian Workers in Germany).

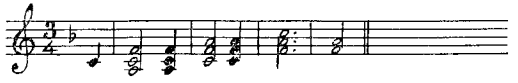
SECOND PRGR.: Mo.–Fri.: 04.30–08.50, 09.30–24.00. Sat., Sun.: 05.00–24.00. – **Relay First Prgr.:** 04.30–05.05, 06.00–07.15, Mo.–Fri. 11.05–12.00, Wed., Fri., Sat. 23.00–24.00, Sun. 05.00–06.05, 23.00–24.00.

	ch	**Mc**	**kW**		**ch**	**Mc**	**kW**
Gelbelsee	2	87.6	10	Aschaffenb. II	9	89.75	6
Wallberg	2	87.7	0.3	Hohenpeissenb.	10	89.9	8
Augsburg	3	87.9	0.75	Landshut	11	90.2	0.1
Büttelb./Frankh.	4	88.2	7	Ochsenkopf/ Fichtelgeb. II	12	90.7	50
Coburg	4	88.3	2				
München II	5	88.4	3	Brotjacklriegel	17	92.1	100
Grünten/Allgäu	6	88.7	100	Dillberg II	18	92.3	12
Würzburg	7	89.0	2	Hohe Linie	20	93.0	8
Garm.–Partenk.	7	89.2	0.5	Kreuzb./Röhn II	20	93.1	100
Wendelstein II	8	89.5	100	Passau	21	93.2	0.3
Bamberg II	9	89.6	6				

N.: W. 07.00, 08.00, 09.00, 11.00, 16.00, 16.50, 18.00, 20.00, 22.00. Sun. 06.00, 11.05, 18.00, 20.00, 22.00, 23.00.

ANN.: "Hier ist der Bayerische Rundfunk". – **E.:** "This is der Bayerische Rundfunk". – **V.** by QSL-card or letter. Prgr. sched. on request.

INT.-SIG.:



PUB.: "Pressedienst" (weekly).

RADIO BREMEN (Anstalt des öffentlichen Rechts).

AD.: Mo.-Fri. 07.05–07.30, 12.10–13.00, 17.30–18.00. Sat. 17.30–17.50. **ADDR.:** Heinrich-Hertz-Str. 13, Bremen. **Cable:** Radio. **Te.:** 444041 – **L.P.:** Intendant: H. Kerneck. Dir. Prgr. and TV: H. Abich. Dir. Tec.: H. Heyer.

HOME SERVICE:

First Prgr.: W. 05.00–23.05. Sun. 06.00–23.05.

Bremen 1358 kc 221 m 20 kW. – Bremerhaven 1079 kc 278 m 2 kW. – 6190 kc 48.47 m 10 kW.

FM: Bremen I ch 23 93.8 Mc 100 kW. – Bremerhaven I ch 8 89.5 Mc 0.5 kW.

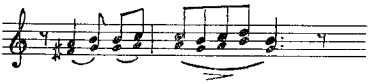
Second Prgr.: W. 17.00–23.05. Sat. 15.00–23.05. Sun. 09.00–23.05 exc. 12.00–15.00.

Bremen II ch 4 88.3 Mc 100 kW. – Bremerhaven II ch 17 92.1 MHz 5 kW.

N., Wrp., Comm.: (1st & 2nd Prgr.). 05.05 (W), 05.30 (W), 06.00 (W), 06.30 (W), 07.00, 07.30 (W), 12.00, 16.00 (exc. Sat. & Sun.), 18.30, 20.30, 21.00, 22.00 (exc. Sat.), 23.00. – **"Die Zeit im Funk":** W. 18.00–18.30. – **Rel.:** 05.00 W. 07.35, Sun. 06.00, 09.00, Sat. 17.00. – **L.L.:** English: Tues. 14.45; Wed. 08.45, 14.30; Thurs. 08.30 (fortnightly) 14.40; Fri. 08.40. – **Mbg.:** Sun. 17.00.

ANN.: "Hier ist R. Bremen mit dem ersten, bzw. zweiten Programm".

INT.-SIG.:



V. by QSL-card. Rp. Re. in E, F or G. – **PUB.:** Prgr. sched. free on request to Pressestelle, Radio Bremen.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts) I=Prgr. I, II=Prgr. II – **AD.:** W 07.15–08.00 (I+II), 09.10–09.30 (II), 10.10–10.30 (I), 12.00–12.50 (I+II).

ADDR.: Frankfurt am Main, Bertramstrasse 8. **Cable:** Hessfunk. **Te.:** 59051. **Telex:** 04 11127.

L.P.: Intendant: Werner Hess. Personal Adviser: Dr. Hans Prescher. Pres.: Richard Weigand. Public Relations: Dr. Jürgen Bengsch. Dir. Tec.: Dir.-Ing. Franz Miseré. Dir. Prgr. (Radio): Dr. Henning Wicht. Dir. Prgr. (TV): Hans Otto Grünefeldt. Prgr. Management (Radio): Dr. Klaus Brock.

STATIONS:

Prgr. I: Frankfurt 593 kc 505.8 m 100 kW d – Meissner 593 kc 20 kW d.

FM:	**ch**	**kW**		**ch**	**kW**		**ch**	**kW**
Biedenkopf	2	10	Feldberg	8	10	Meissner	8	1
Würzberg	4	0.25	Hardberg	19	0.25			

Prgr. II:

FM:	**ch**	**kW**		**ch**	**kW**		**ch**	**kW**
Hardberg	12	0.25	Würzberg	35	0.25	Feldberg	32	10
Meissner	28	10	Biedenkopf	42	10			

HOME SERVICE:

D. 04.00–06.05, **W.:** 07.15–08.00, 11.30–13.00, Mo.–Fri. 23.00–23.10, Sat. 23.00–24.00, Sun. 23.00–23.15. All stations Prgr. I – other times Prgr. II separately – Night Prgr. on 593 kc (Frankfurt) only.

NEWS: I+II: 04.00, 05.00, 06.00, 07.00(Sun.), 11.50, 23.00 – I: 07.00(W), 15.00(W), 16.15(Sun.), 17.00(W), 18.30(W), 18.40(Sun.), 21.00 – II: 08.00(W), 14.00(Sun.), 16.00(exc. Sat.), 18.00(W), 22.00 – On 593 kc only: 00.00, 01.00, 02.00, 03.00.

Wrp.: after N. – **Comm.:** W. 18.05 (II), 18.40 (I) – **L.L.:** English: Sat. 08.35 (II), French: Sat. 08.50 (II) – **For Italian Workers in the Federal Republic:** "Buon giorno, Collega" Sat. 08.05 (II) – **Quiz** (I): Wed. 19.00 (fortnightly) London-Frankfurt – Sat. 19.10 (monthly) "The golden Question" – Sat. 15.05 (monthly) "What you like"

ANN.: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt" – **INT.-SIG.:** Electronic music – **V.** by QSL-card. – **PUB.:** Prgr.schedule (half-yearly, yearly and weekly).

NORDDEUTSCHER RUNDFUNK

(Anstalt des öffentlichen Rechts)

FI.: By license payments – **ADDR.:** Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nordfunk. **Te.:** 44 19 31.

Studios: Flensburg: Friedrich-Ebert-Str. 1 – **Oldenburg:** Oldenburg i. O. Jägerstr. 30 – **Berlin:** Berlin-Grünewald, Hubertusallee 26 – **L.P.:** Intendant G. Schröder. Finanzdir.: G. Schulz. Dir. Tec.: Dr. H. Rindfleisch.

HOME SERVICE

FIRST PRGR.: D. 03.55(Sun. 04.58)–00.15(Sat. 01.15). **Night Prgr.** on 520 kc (Braunschweig), 701 kc (Hamburg), 1570 kc (Flensburg), 1586 kc (Hannover, Oldenburg), Hamburg 92.1 Mc, Harz 96 Mc: Sun., Mo., Fri. 00.15–03.30. Sat. 01.15–04.30.

	kc	**m**	**kW**		**kc**	**m**	**kW**
Braunschweig	520	577	2	Flensburg	1570	191	10
Norden/Osterl.	701	428	2	Hannover	1586	189	40
Lingen	701	428	2	Kiel	1586	189	5
Göttingen	971	309	5	Oldenburg	1586	189	40
Hamburg	971	309	100	Osnabrück	1586	189	5

FM Stations (relay m.w. prgr. exc. night prgr.)

	ch	**Mc**	**kW**		**ch**	**Mc**	**kW**
Götting.	5	88.55	1.2	Oldenb.	14	91.1	70
Bungsb.	10	89.9	3	Dannenb.	14	91.2	15
Harz	10	89.9	100	Kiel	14	91.3	1.2
Norden/O.	10	90.05	15	Osnabr.	18	92.4	0.1
Hambg.	11	90.3	80	Lingen	19	92.8	15
Heide	12	90.5	15	Lübeck	20	93.1	30W
Hannov.	13	90.9	3	Flensbg.	21	93.2	15

N., Wrp.: D. 04.00(W), 05.00(W), 06.00, 07.00(W), 07.55 (Sun. 08.00), 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00. **Rel.:** Sun. 09.00, W. 05.50.

SECOND PRGR.: W. 05.00–23.05. Sun. 06.58–23.05.

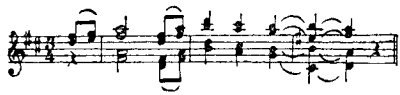
Short Waves: Norden/Osterloog: 3970 kc 75.57 m 5 kW – 6075 kc 49.38 m 20 kW.

	ch	**Mc**	**kW**		**ch**	**Mc**	**kW**
Flensbg.	9	89.6	15	Dannenb.	31	96.4	15
Lingen	11	90.2	15	Bungsbg.	36	97.8	3
Götting.	24	94.1	2	Harz	37	98.0	100
Oldenb.	25	94.4	70	Hannov.	39	98.7	3
Kiel	25	94.5	1.2	Osnabr.	39	98.8	2
Lübeck	29	95.7	0.03	Hambg.	41	99.2	80
Norden/O.	29	95.8	15	Heide	41	99.4	15

THIRD PRGR.: D. 19.00 approx. 21.30.

	ch	Mc	kW		ch	Mc	kW
Hambg.	2	87.6	80	Hannov.	30	95.9	5
Osnabr.	7	89.2	2	Flensb.	30	96.05	15
Lübeck	13	90.9	0.03	Götting.	30	96.1	1
Bungsb.	16	91.9	0.5	Lingen	36	97.8	0.250
Harz	17	92.1	100	Kiel	38	98.3	1.2
Dannenb.	21	93.3	1	Oldenb.	43	99.8	70

ANN.: 1st Prgr.: "Hier ist der Norddeutsche Rundfunk". – **2nd Prgr.:** "Hier ist der Norddeutsche Rundfunk auf Ultrakurzwelle". – **3rd Prgr.:** "Hier ist das Dritte Programm des Norddeutschen Rundfunk".
INT.-SIG.:
1st Prgr.: Motif from the first movement of Johs. Brahms' Symphony no. 2.



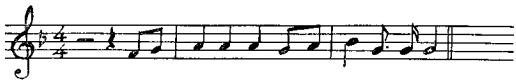
2nd Prgr.: "Einen zerlegten Nonen-Akkord" – **3rd Prgr.:** The tones "B-A-C-H" in Regerharmonization – **V.** by QSL-card – **PUB.:** "Die Ansage" (weekly) Prgr.sched. (weekly).

EUROPE NO. 1 (Comm.)

ADDR.: Europäische Rundfunk und Fernseh AG., Saarbrücken, Dudweilerstrasse 57/59, Saarbrücken. **Te.:** 2.41.62 – **L.P.:** Mgr.: Frédéric Billmann.
For programmes: Télécompagnie 26 bis, Rue François Ier, Paris 8e. **Cable:** Euradio. **Te.:** Balsaz 6500. **L.P.:** Pres.: Sylvian Floirat. Gen. Mgr.: Maurice Siegel. – **For advertisements:** Regie No. 1, 28, Rue François Ier, Paris 8e. **L.P.:** Gen. Mgr.: J. Frydmann. – For Picture and Sound: Europe 1, 4 Bd. des Moulins, Monte Carlo. **L.P.:** Pres.: S. Floirat. Dir. Gen.: L. Merlin.
D. PRGR.: Felsberg 182 kc 1647 m 400 kW: D. 06.00–01.00. – **N.:** Every h. on the h.
ANN.: F.: "Ici Europe No. 1. **G.:** "Hier spricht Europa Nr. 1". **E.:** "This is Europe No. 1"

SAARLÄNDISCHER RUNDFUNK

(Gemeinnützige Anstalt des Öffentlichen Rechts)
AD.: W.: 06.15–07.30, 10.00–11.00, 11.40–12.00, 12.25–12.30, 18.30–19.00. Mo.–Fri. 17.20–18.00. Sat. 16.25–17.00 – **ADDR.:** Intendanz und Verwaltung, Schloß Halberg, Saarbrücken, Postfach 1050. **Cable:** Radio Saarbrücken. **Te.:** 6021 – **L.P.:** Intendant Dr. Franz Mai. Dir. Adm.: W. Klein. Tech. Dir.: Dipl.-Ing. F. Glasow.
STATIONS: 1421 kc 290 m 100 kW.
FM: 96 Mc 10 kW Tholey – 98.9 Mc 1.5 kW Schwarzenberg.
HOME SCE. in German:
M.W. Prgr.: Mo.–Sat. 04.57–08.30, 10.00–23.05. Sun. 05.30–23.05 – **N., Wrp.:** W.: 05.00, 06.00, 07.30, 12.00, 16.00, 18.30, 21.00, 23.00. Sun.: 06.00, 07.00, 12.00, 18.30, 21.00, 23.00.
FM Prgr.: Mo.–Fri.: 17.00–22.00. Sat. 13.30–22.00. Sun.: 07.15–13.00, 14.00–21.00 – **N.:** W.: 17.30, 21.30. Sun.: 12.00, 18.30, 21.00.
ANN.: "Hier ist der Saarländische Rundfunk auf Wellenlänge 211 m bzw. auf Ultrakurzwellen 96.0 und 98.9 MHz".
INT.-SIG.: "Glück auf, der Steiger kommt".



V. by QSL-card – **PUB.:** Prgr.schedule free on request.

SÜDDEUTSCHER RUNDFUNK

(Anstalt des Öffentlichen Rechts)
AD.: W.: 06.05–06.55, 12.00–13.15 – **ADDR.:** 7000 Stuttgart-O., Neckarstr. 145. **Cable:** Rundfunk, Stuttgart. **Te.:** 299701. **Telex:** 0723456. **Studios:** Heidelberg-Mannheim: Heidelberg, Marstallstr. 6. Karlsruhe: Kriegsstr. 168 – **L.P.:** Vorsitzender des Rundfunkrats: Dr. Valentin Gaa (MdL), Landrat, Mannheim. Vorsitzender des Verwaltungsrats: Dr. rer. nat.h. c. Dr. ing. e. h. Alex Möller, Generaldir. (MdB), Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir.: Dr. Peter Kehm. Verwaltungsdir.: Friedrich Müller. Technischer Dir.: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.
HOME SERVICE:
M.W. Prgr. (rel. by S.W. and FM): Sun. 04.56–00.10. Mo. 03.56–03.30. Tues, Thurs. 03.56–23.15. Wed. 03.56–03.55. Fri. 03.56–03.30. Sat. 03.56–24.00.

Stations	kc	m	kW		kc	m	kW
Mühlacker	575	522	100	Schwäbisch-Hall	1484	202	0.2
Heidelberg-Dossh.	998	301	10	Eberbach	1484	202	0.2
Buchen-Walldürn	998	301	0.2	Mosbach	1484	202	0.2
				Bopfingen	1484	202	0.2
Ulm-Jungingen	1169	257	5	Ellwangen	1484	202	0.2
Heilbronn-Obereisesh.	1169	257	10	Adelsheim	1484	202	0.2
Bad Mergenth.	1412	212	3	Gerabronn	1484	202	0.2
Wertheim	1484	202	0.2	Giengen	1484	202	0.2
Heidenheim	1484	202	0.2	Kirchberg	1484	202	0.2
Crailsheim	1484	202	0.2	Külsheim	1484	202	0.2
				Neresheim	1484	202	0.2

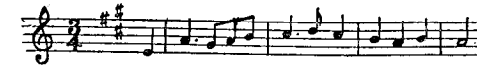
Short Wave: Mühlacker: 6030 kc 49.75 m 20 kW.

FM:	ch	Mc	kW		ch	Mc	kW
Stuttgart I	26	94.7	100	Aalen I	27	95.1	50
Waldenburg I	39	98.8	100	Geislingen I	28	95.5	0.5
Heidelberg I	36	97.8	100	Ulm I	25	94.5	1

N.: 04.30, 05.00, 06.00, 07.00, 08.00, 11.30, 16.00, 17.00, 18.00, 21.00, 23.00.
FM-Prgr.: W. 04.35–09.15, 09.45–23.15, Sat 04.35–24.00, Sun 07.05–23.10.

	ch	Mc	kW		ch	Mc	kW
Stuttgart II	10	90.1	100	Stuttgart II	3	88.0	0.5
Waldenburg II	23	93.8	100	Heidelberg II	6	88.8	100
Aalen II	14	91.1	50	Mühlacker	8	89.5	4,5
B.Mergenth.IIA	3	87.8	0.5	B.Mergenth.IIB	21	93.2	0.5
Geislingen II	20	93.0	0.5	Wertheim	16	91.8	0.1
Ulm II	7	89.2	1.0	Buchen	16	91.9	0.1

N.: 05.30, 06.30, 07.30, 12.00, 13.00, 16.30, 17.30, 18.30, 21.30, 23.00.
For Italian, Greek, Spanish Workers in Germany: D. 17.45–18.00.
ANN.: "Hier ist der Süddeutsche Rundfunk" – **INT.-SIG.:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele" – **V.** by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

AD.: M.w.: Mo, Tues, Thurs, Fri: 09.00–10.55, Wed 09.30–10.55, Sat 12.30–13.20, 17.10–17.30 – **FM:** W 06.10–06.40, Mo–Fri 07.05–09.00, 17.10–17.40, Sat 07.05–08.30.
ADDR.: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. **Cable:** Südwestfunk Baden-Baden. **Te.:** 761. – **Studios: Freiburg i Br.:** Günterstal, Kyburg. **Mainz:** Deutschhausplatz 8. **Tübingen:** Matthias-Koch-Weg 7. – "Zweigstellen". **Kaiserslautern:** Auf dem Sess. **Koblenz:** Januarius-Zick-Str. 8. **Trier:** Christophstrasse 24.
L.P.: Vorsitzender des Rundfunkrates: H. Matthes, Mainz, Vorsitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: Senator h.c. Prof. Fr. Bischoff. Programmdir. u. stellvertretender Intendant: L. Hartmann. Tech. Dir.: Dr. H. v. Braunmühl. Verwaltungsdir.: A. Manke. Press u. Inf.: H. R. Fröbel. Leiter Freiburg Studio: E. Brugger. Leiter Mainz Studio: T. W. Zwermann. Leiter Tübingen Studio: A. G. Richter.

HOME SERVICE

PRGR. I: Sun. 05.50–24.00. Wed. 04.45–23.10 (Wed. 24.00, Sat. 01.00).

M Waves:	kc	m	kW		kc	m	kW
Bad Dürrheim	665	451	20	Sigmaringen	827	363	1
Baden-Baden	827	363	1.5	Trier	827	363	1
Freiburg	827	363	40	Rheinsender	1016	295	120
Kaiserslautern	827	363	3	Ravensburg	665	451	20
Koblenz	827	363	0.5	Reutlingen	665	451	10

Short Wave: Bad Dürrheim 7265 kc 41.29 m 1.5 kW.

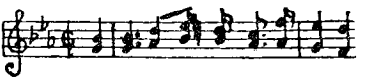
FM	ch	Mc	kW		ch	Mc	kW
Baden-Baden	40	98.9	0.5	Koblenz	23	94.0	2.5
Betzdorf	20	93.1	0.35	Linz	35	97.4	18
Blauen	19	92.6	2.5	Potzberg	23	93.9	20
Feldberg/Schwarzw.	36	97.9	1	Raichberg	24	94.3	12
Haardtkopf	20	93.0	18	Wannenberg	19	92.8	1
Hochrheinsend.	14	91.1	0.07	Witthoh	11	90.4	37.5
Hornisgrinde	31	96.2	60	Wolfsheim	40	99.1	18

N., Wrp.: 04.50(W), 06.00, 07.00, 08.45(W), 11.50, 15.00(W), 21.00, 23.00 – **"Tribune der Zeit":** W 18.30. Sun. 18.40 – **"Deutsche Pressestimmen":** W 12.05 – **Wrp.:** 06.55, 18.30(W) – **Mbg.:** Sun 17.10.
PRGR. II: Sun. 05.50–24.00. W 04.45–23.10 (Wed. 24.00. Sat. 01.00).

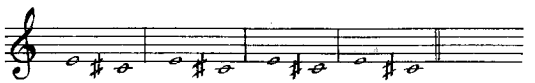
FM	ch	Mc	kW		ch	Mc	kW
Baden-Baden	13	90.9	0.5	Koblenz	15	91.6	2.5
Betzdorf	9	89.8	0.35	Linz	18	92.4	18
Blauen	7	89.2	2.5	Mainz	15	91.4	0.035
Eifel	14	91.1	8	Potzberg	13	90.8	20
WDR-Progr.	22	93.6		Raichberg	4	88.3	12
Feldberg/Schwarzw.	9	89.8	1	Waldburg	14	91.2	18
				Wannenberg	7	89.0	1
Haardtkopf	10	90.0	25	Weinbiet	10	89.9	36
Hochrheinsend.	3	88.0	0.07	Witthoh	18	92.4	25
Hornisgrinde	22	93.5	60	Wolfsheim	5	88.4	18

N., Wrp.: 04.50(W), 06.00, 07.00(W), 09.00(Sun.), 11.00(W), 13.45 (Sun.), 15.00(W), 19.00, 21.30(W), 23.00 – **L.L.: French by R.:** Mo., Thurs. 18.45. **English by R.:** Tues., Fri. 18.45 – **Wrp.:** 06.55(W).

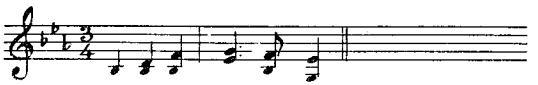
ANN.: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie...". – **INT.-SIG.: Baden-Baden:** Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).



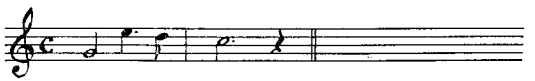
Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria".



Tübingen: "Droben im Oberland" (2 horns).



Landesstudio Rheinland-Pfalz (Mainz): The first movements of the song: "Dort wo der alte Rhein" (Celesta). – **V.** by letter.



V. by QSL-card and letter. Rp.

WESTDEUTSCHER RUNDFUNK (WDR) (Anstalt des öffentlichen Rechts) – **FI.:** By license payments.
ADDR.: Wallrafplatz 5, Köln. **Cable:** WDR. **Te.:** 2841. – **Studios: Bonn,** Dahlmannstrasse 32. **Dortmund,** Westenhellweg 86/88. **Bielefeld,** Lessingstrasse 3. **Münster,** Warendorfer Str. 1. **Düsseldorf,** Palmenstrasse 16. **Essen,** Waldthausenpark 2.
L.P.: Intendant: Klaus von Bismarck. Verwaltungsdirektor & Justitiar: Dr. H. Brack. Sound Dir.: Dr. F. Brühl. TV-Dir.: Dr. Hans-Joachim Lange. Dir. Tec.: K. Schulz. Verwaltungsleiter: Ernst Przybylla. Int. Prgr.-Austausch: Frau Dr. F. Hömke. Pressechef: J. Rick.

HOME SCE.:
M.W. Prgr.: W 03.55–09.55, 11.00–24.00 (Sat. 01.00). Night Prgr. (on 971 kc only): 00.00–03.53 (Sat. 01.00–04.53). Sun. 04.58–24.00. Night Prgr. 00.00–03.53.

Medium Waves:	kc	m	kW	Medium Waves:	kc	m	kW
Aachen/Stolb.	701	428	5	Münster	1502	199.7	0.8
Herford	701	428	2	Bonn	1586	189	5
Siegen	755	397	2	Kleve	1586	189	3
Langenberg	971	309	100				

FM. Common WDR and NDR m.w. prgr.:

	ch	Mc	kW		ch	Mc	kW
Aachen-Stolb.	3	88.0	5	Nordhelle	11	90.3	15
Köln	3	87.8	0.5	Teutob. Wald	12	90.6	100
Langenberg	6	88.8	100	Wittgenstein	6	88.7	7.5

N., Wrp.: W.: 04.00, 05.00, 06.00, 07.00, 07.55, 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00. Sun.: 06.00, 07.45, 12.00, 18.00, 20.45, 23.00. D. 01.00, 02.00, 03.00.
Comm.: Mo.-Fri.: 18.10–18.15, 21.00–21.10. – **Wrp.:** Repeats of short version within music prgr's at 04.30, 05.30, 06.30, 07.30.
FM-Prgr.: W. 05.25–23.00 (Sat. 24.00). Sun. 06.00–24.00.

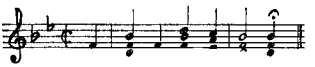
	ch	Mc	kW		ch	Mc	kW
Aachen-Stolb.	23	93.9	5	Monschau	24	94.2	0.05
Bonn	19	92.8	0.5	Münster	24	94.1	5
Eifelsender	22	93.6	8	Nordhelle	22	93.5	15
Kleve	21	93.3	0.25	Siegen	19	92.6	0.5
Köln	16	91.8	0.5	Teutob. Wald	21	93.2	100
Langenberg	27	95.1	100	Wittgenstein	18	92.3	7.5

N., Wrp.: W. 05.30, 06.30, 07.30, 11.30, 17.00, 19.00, 22.00. Sun. 07.30, 11.45, 19.00, 22.00. – **N. from Northrhine Westphalia:** Mo.-Fri. 16.50, Sat. 16.55.
3rd Prgr.: Thurs., Fri., Sat. 19.00–21.30 (approx). Sun. 14.30–17.00 (approx). Tues. (1st & 3rd Tues. of the months) 19.00–21.00 (approx).

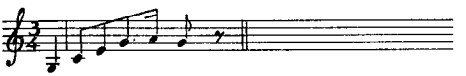
	ch	Mc	kW		ch	Mc	kW
Langenberg	41	99.2	50	Nordhelle	37	98.1	15
Münster	9	89.7	5	Teutob. Wald	33	97.0	100

N.: Thurs.-Sat. 19.00 – **For Foreign workers in Germany:** Italian D. 18.45–19.00, Greek Tues. 18.30–18.45, Spanish Fri. 18.30–1845.
ANN.: M.W. Prgr.: "Westdeutscher Rundfunk" – FM-Prgr.: "Westdeutscher Rundfunk, Ultrakurzwellenprogramm" "Westdeutscher Rundfunk, Drittes Program".

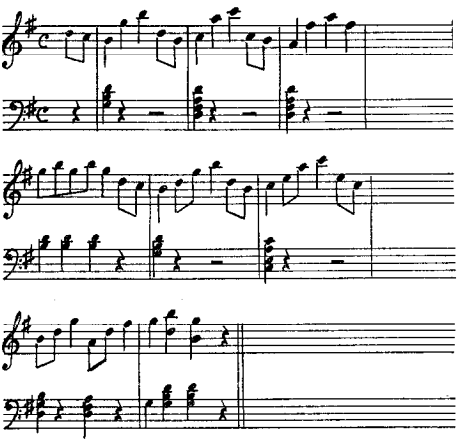
INT.-SIG.: M.W. Prgr.: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.



FM-Prgr.: Motif from the second movement of the third symphony E-flat (Robert Schuman) electronic music.



3rd Prgr.: Motif from the "Magie Flute" (Mozart): "Das klinget so herrlich, das klinget so schön" played on Celeste.



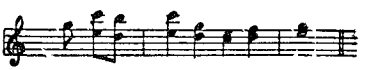
V. by QSL-card or letter. Re. to Technische Direktion. – **F.PL.:** Extension of FM tr's to 3 prgr's each, exc. Eifelsender.

BERLIN-WEST

RIAS-BERLIN. – **FI.:** By United States Information Agency.
ADDR.: Berlin-Schöneberg, Kufsteiner Str. 69. **Cable:** Rias-Berlin. **Te.:** 710271. – **L.P.:** Dir.: R. H. Lochner. Dir. Prgr.: H. Kundler. Dir. Tec.: A. Pösniker. Dir. Listeners Rel. and Press: H. Kirstaedter.

STATIONS:	kc	m	kW	[1]) RIAS I [2]) RIAS II [3]) VOA
München[3])	173	1734	1000:	D. 04.00–07.30, 11.00–12.40 15.00–17.00, 20.00–21.00 00.00–01.05
Berlin/Hof[1])	683	439	100	D. 24 h. on 989 kc and FM. The other freq.'s have short daily intervals at various hours.
Hof	737	407	40	
Berlin[2])	854	351	20	
Berlin[1])	989	303	300/200	
Berlin[1])	6005	49.96	20	

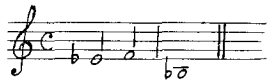
FM: Berlin[2]) ch. 9 89.6 Mc 10 kW. – Berlin[1]) ch. 24 94.3 Mc 10 kW.
N. and Wrp.: D. 22.00, 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30, 05.30, 06.30, 07.30, 08.30, 10.30 (W), 11.30 (W), 12.30 (W), 15.30. RIAS I: 12.00 (Sun.), 18.00, 20.30 (W), 21.00 (Sun.), 22.00 (W). RIAS II: 11.30 (Sun.), 18.30, 21.00 (W), 21.30 (Sun.).
N. on 173 kc: W. 00.00, 01.00, 04.00, 04.30, 05.00, 05.30, 06.30, 07.15, 11.00, 12.00, 12.30, 15.30, 16.30, 20.00, 20.50. Sun.: 00.00, 04.00, 04.30, 05.30, 06.30, 07.30, 12.00, 15.00, 20.00.
Folklore Music: Fri. 18.30 (RIAS I) – **Rel.:** (RIAS I+II): Sun. 06.15, 07.00, 07.35. W. 05.40. – **L.L.: English:** Tues., Thurs. 14.30 (RIAS II), Wed., Fri. 09.30 (RIAS I). **French:** Mo., Wed. 14.30 (RIAS II), Tues., Thurs. 09.30 (RIAS I).
"Aus der Zone für die Zone": W. 18.15 (RIAS I), 18.45 (RIAS II).
"Die Woche in Bonn": Sun. 11.00 (RIAS II), 12.30 (RIAS I).
Quiz Prgr's: "Wer fragt gewinnt" (Fortnightly): Thurs. 18.30 (RIAS I), Wed. 20.00 (RIAS II). – **Mbg.:** "Musik kennt keine Grenze": Sat. 14.00, Sun. 09.00 (RIAS II).
ANN.: "Hier ist RIAS-Berlin". – **INT.SIG.:** From a Trio Sonata.



V. by QSL-card. – **PUB.:** Press service weekly RIAS educationbroadcast pressservice every six weeks.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts
AD.: W 05.30–06.40, 10.00–11.15. From 16.30 – **ADDR.:** Masuren Allee 8–14, 1 Berlin 19. (West Berlin). **Cable:** Sender Freies Berlin. **Te.:** 92031 – **L.P.:** Vorsitzender d. Rundfunkrates: Dr. F. Suchan. Intendant: W. Steigner. Dir. Prgr.: H. H. Fischer. Dir. Adm.: H. Koch. Dir. Tec.: U. Blässer.

HOME SCE.:
Berlin 1st Prgr. 566 kc 530 m 20 kW – FM 88.75 Mc 10 kW
Berlin 2nd Prgr. 1484 – 202 – 5 – – FM 92.4 – 10 –
Berlin 3rd Prgr. – **FM:** 96.3 Mc 10 kW
1st Prgr.: Mo.–Fri. 03.55–03.30. Sat. 03.55–04.30. Sun. 04.58–03.30. **N.:** 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 08.00 (Sun.), 09.00. (W) 10.00 (W), 12.00, 14.00 (W), 16.00, 18.00 (W), 18.45, 21.00, 23.00,
2nd Prgr.: Mo.–Fri. 15.00–23.35. Sat. 13.00–23.10. Sun. 06.58–00.05. **N.:** W. as 1st prgr. 04.00–16.00, 18.15, 22.00, 23.00. Sun. 07.00, 12.00, 16.00, 18.15, 22.00, 23.00.
ANN.: "Hier ist der Sender Freies Berlin mit dem ersten Prgr... zweiten Prgr.".
INT.-SIG.: Cembalo:



V. by QSL-card. – **F.PL.:** 100 kW m.w. tr. 1st Prgr. (566 kc). – **PUB.:** "Vorschau" (weekly).

ALLIED STATIONS

AMERICAN FORCES NETWORK. (United States Army)
The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment. **ADDR.:** United States Army Element American Forces Network, Europe APO 757, New York, N.Y., USA. – **Te.:** Frankfurt 314.800. – **L.P.:** Commander, American Forces Network: Lt. Colonel R. Cranston. Prgr. Supervisor: D. Brewer. Tec. Supervisor: F. C. Mortensen.

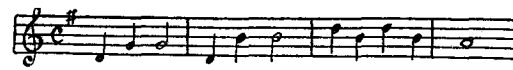
STATIONS:	kc	m	kW		kc	m	kW
Munich*)	548	547	100	Bamberg	1304	230	0.25
Nürnberg*)	611	491	10	Berchtesgaden	1304	230	0.25
Grafenwöhr	611	491	10	Heidelberg	1304	230	1
Kaiserslaut.*)	611	491	10	Regensburg	1304	230	0.25
Frankfurt*)	872	344	150	Fulda	1304	230	0.25
Berlin*)	935	321	10	Wertheim	1304	230	0.25
Ansbach	1034	290	0.25	Goeppingen	1304	230	0.25
Bad Kissingen	1034	290	0.25	Bitburg	1394	215	0.25
Stuttgart*)	1106	271	100	Garmisch	1502	199.7	0.25
Bremerhaven*)	1142	293	5	Giessen	1502	199.7	0.25
Hersfeld	1142	263	0.25	Straubing	1502	199.7	0.25
Schweinfurt	1142	263	0.25	Rothwesten	1502	199.7	0.25
Würzburg	1142	263	0.25	Wildflecken	1502	199.7	0.25
Füssen	1142	263	0.25	*) Studio Installations.			

FM: Berlin 87.85 Mc, Frankfurt 98.7 Mc 55 kW, Stuttgart 101.2 Mc 0.45 kW (ERP).
D.PRGR.: 05.00 (Sun. 06.00)–00.05 – Berlin: 24 h. – **N.:** Every h. on the h. (5 min)+major newscasts (15 min) at 06.00, 11.30, 17.00, 21.00 – **Hymns from Home:** Mo.–Fri. 05.05, 23.50 – **Request Shows:** 05.15, 06.20, 10.30, 11.05, 15.05, 16.05. – **Local N.:** Mo.–Fri. 17.15. – **Wrp.:** 05.00, 06.00, 11.15, 17.00, 19.15, 21.15. – **Rel.:** Sun. 09.30 (Catholic), 10.05 (Protestant).
ANN.: "This is AFN, The American Forces Network, Europe" announced at least every half hour. – **INT.SIG.:** Every h. on the h. AFN announces the time and the sixth and final pip is exactly on the h. as announced. – **V.** by QSL-card. Rp. – **PUB.:** Prgr. schedule (weekly,) not available to individuals.

BRITISH FORCES NETWORK (Military)
B.F.N. is operated by the War Office for the purpose of providing entertainment and a reliable news service for H.M. Forces in N.W. Germany and Berlin. It is a non-commercial organisation and does not accept advertising.
ADDR.: BFN, Cologne, British Forces Post Office 19. – **Te.:** 381757. **L.P.:** St. Dir.: I. J. Woolf. S.P.O.: D. G. Philips. Acting Dir. Tec.: T. A. Cousens.
STATIONS:

FM:	Mc	kW			Mc	kW		Mc	kW
Langenberg	96.5	50	Bonn		99.8	2	Berlin	98.75	1
Nordhelle	96.5	15	Herford		95.4	6	Drachenberg	93.0	80
Verden	97.6	50							

English: 05.30 (Sun. 07.00)–22.30 (Sat. 24.00). – **N. from BBC:** 07.00, 08.00, 12.00, 18.00, 21.30. N. summaries on the half h. hourly. – **N. of Germany:** W. 06.50, 12.10. – **L.L.:** (Oct–April) "Sprechen Sie Deutsch" 09.00, 18.15. – **Wrp.:** 06.30, 07.10, 12.10, 18.15, 22.30.
ANN.: "This is the British Forces Network in Germany". – **INT.-SIG.:** British Army Bugle Call "Fall-in" played on Celeste.



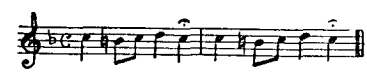
V. by letter. Rp. – **PUB.:** BFN-bulletin weekly.

RADIO FREE EUROPE (Private, non-comm.)
FI.: By American contribution through the Radio Free Europe Fund.
ADDR.: Radio Free Europe, Division of the Free Europe Committee, 2 Park Avenue, New York 16, N.Y., USA. **Cable:** Natfecom, N.Y. **Te.:** LExington 2-8900. – Radio Free Europe Headquarters, 1 Englischer Garten, München 22, Germany. **Cable:** Raduropa. **Te.:** 229921. – **New York office:** 2 Park Avenue, New York 16, N.Y., USA. **Cable:** Natfecom, N.Y. **Te.:** LExington 2-8900. – **Raret** (Portugal relay base), Sociedade Anonima de Radio Retransmissao, Av. Padre Manuel da Nobrega 8-B, Lisbon. **Cable:** Raretsa. **Te.:** 721131.
L.P.: Free Europe Committee (New York): Pres., John Richardson, Jr. RFE Headquarters (Munich): Dir.: C. Rodney Smith. Dir. of Engineering & Services: Russell E. Geiger. New York office: Dir.: C. Kaufmann. Dep. Dir. Engineering: M. L. Koerner. Portugal relay base (Raret): Man. Dir.: H. C. Lolliot. Dir. of Engineering: M. N. Oebbecke.

STATIONS:
Medium Wave: Holzkirchen 719 kc 417.2 m 135 kW.
Short Wave: Eight s.w. tr.s in Biblis, Germany (10, 20, 50 kW), six s.w. tr.s in Holzkirchen, Germany (10 kW), and thirteen s.w. tr.s near Lisbon, Portugal (10, 50, 100 kW).

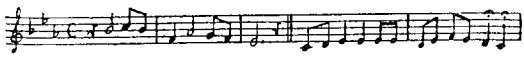
kc	m	kc	m	kc	m	kc	m	kc	m
3960	75.75	7145	41.99	9705	30.91	11895	25.22	17725	16.93
3990	75.19	7155	41.93	9710	30.90	11915	25.17	17735	16.92
3995	75.09	7165	41.87	9715	30.88	11930	25.15	17770	16.88
5960	50.37	7175	41.80	9720	30.86	11940	25.13	17805	16.85
5970	50.25	7180	41.78	9725	30.85	15115	19.85	17835	16.82
5985	50.12	7190	41.72	9750	30.77	15135	19.82	17840	16.82
5990	50.08	7205	41.64	11725	25.59	15145	19.81	17855	16.80
6015	49.88	7225	41.52	11735	25.56	15170	19.78	17875	16.79
6020	49.83	7235	41.47	11745	25.54	15185	19.76	17885	16.78
6095	49.22	7245	41.41	11755	25.52	15195	19.74	21485	13.97
6105	49.14	7285	41.18	11760	25.51	15215	19.71	21600	13.89
6125	48.98	7295	41.12	11775	25.48	15255	19.66	21620	13.87
6130	48.94	9505	31.56	11805	25.41	15265	19.66	21665	13.84
6160	48.70	9595	31.27	11815	25.39	15295	19.61	21720	13.81
6185	48.50	9605	31.23	11820	25.38	15355	19.54	21745	13.80
7105	42.22	9655	31.07	11830	25.36	15365	19.53		
7115	42.16	9670	31.02	11855	25.31	15405	19.47		
7140	42.02	9695	30.95	11885	25.24	15420	19.46		

Most RFE frequencies are registered for use both in Germany and in Portugal and the selection of transmission location is a function of propagation conditions throughout the year.
D. PRGR. directed to Bulgaria, Czechoslovakia, Hungary, Poland, and Rumania:
BULGARIAN SCE.: 04.30–06.00 (Sun. 05.30–07.00), 17.00–18.00, 20.00–22.00, 22.30–23.00 in 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on the h.
CZECH/SLOVAK SCE.: 03.57(Sun. 05.57)–22.00, 22.40–23.00 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on the h.
HUNGARIAN SCE.: 03.55(Sun. 05.55)–22.00, 22.20–22.40 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.
POLISH SCE.: 03.55(Sun. 04.55)–22.20 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.
RUMANIAN SCE.: 03.00–04.30 (Sun. 04.00–05.30), 16.00–17.00, 18.00–20.00, 22.00–22.30 in 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.
Meter band assignments change throughout the year as propagation conditions vary.
ANN.: Sign on and sign off: **Bulgarian:** "Took E Radio Svobodna Evropa" ("This is Radio Free Europe").
Czechoslovak: "Hlásí se vám československá stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak Station of Radio Free Europe calling").
Hungarian: "Itt a Szabad Europa Radiója" ("This is Radio Free Europe").
Polish: "Mówi rozglosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe").
Rumanian: "Aici e Radio Europa Libera, Jurnalul vorbit al Romanilor de pretutindeni" ("Here is Radio Free Europe, the spoken journal of all Rumanians").
INT.-SIG.: Bulgarian: Part of Bulgarian National Anthem (Celeste):

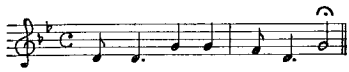


Germany

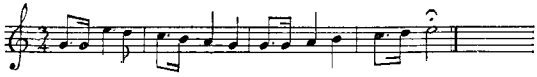
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



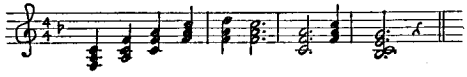
Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube":



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Rumanian folk tune. (Piano and Celeste):



V. by QSL-card. R.p.

RADIO FORCES FRANÇAISES DE BERLIN (FFB)

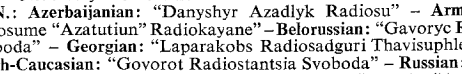
Relay station for entertainment of the French Forces in Berlin.
ADDR.: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf – FM 93.6 Mc 3 kW: Continuously exc. from 08.00–09.00 (Mo., Wed., Fri.) and Thurs. 23.00–Fri. 05.13. – **Rel.:** RTF prgrs. – **N.:** 07.00, 12.00.

RADIO LIBERTY (Pr. – Former Citizens of the U.S.S.R.)

R. Liberty speaks to the peoples of the U.S.S.R. and the Soviet Armed Forces as the free voice of their fellow countrymen abroad. R. Liberty is supported by the American Committee for Liberation, Inc., which derives its funds from private persons and organizations in the U.S.A. and which also operates the transmitting facilities.
ADDR.: Radio Liberty, Lilienthalstrasse 2, Munish 19. **Cable:** AmComLib. **Te.:** 68931. – or: American Committee for Liberation, Inc., 30 East 42nd St., New York 17, N.Y. USA. **Te.:** TN 7-5200. – **L.P.:** **Headquarters, New York:** President of the American Committee: H. Sargeant. Dir. Tec.: S. Y. McGiffert. **Munich:** Pres.: R. Bertrandias. Dep. to Pres.: R. F. Kelley.
STATIONS: Lampertheim (Germany), Playa de Pals (Spain), Pan Chiao (Taiwan): 20/50 kW.

kc	m	kc	m	kc	m	kc	m	kc	m
3990	75.19	7245	41.41	11765	25.50	11935	25.14	15430	19.44
6055	49.55	9565	31.36	11775	25.48	11965	25.07	17730	16.92
6135	48.90	9660	31.06	11825	25.37	11970	25.06	17765	16.89
7130	42.08	9675	31.01	11860	25.30	15340	19.56	17775	16.88
7170	41.84	9730	30.83	11920	25.17	15370	19.52	17785	16.87
				11925	25.16	15395	19.49	17885	16.77

D. PRGR.: 00.00–24.00. Prgr.'s prepared in Munich.
Target areas: E. Germany 75, 49, 41, 31, 25 m.b. – Hungary 75, 49, 41 m.b. – No. So. Russia, Byelo-Russia, Ukraine 49, 41, 31, 25, 19, 16 m.b. – Tartaristan, Bashkiristan, Caucasus, Turkestan 41, 31, 25, 19, 16 m.b. – N.: Every h on the h.
ANN.: **Azerbaijanian:** "Danyshyr Azadlyk Radiosu" – **Armenian:** "Chosume "Azatutiun" Radiokayane" – **Belorussian:** "Gavoryc Radyio Svoboda" – **Georgian:** "Laparakobs Radiosadguri Thavisuphleba" – **North-Caucasian:** "Govorot Radiostantsia Svoboda" – **Russian:** "Govorit Radiostantsia Svoboda" – **Tatar-Bashkir:** "Monda "Azatlyk" Radiostansyese Syuili" – **Turkestan:** "Gepleyar "Azatlyk" Radiosy" – **Ukrainian:** "Govorit Radio Svoboda" – **INT.-SIG.:** Hymn to Freedom – by Gretchaninoff.



V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN GERMANY

ADDR.: Voice of America, Washington 25, D.C., USA.
Long Wave: Munich-C 173 kc 1734 m 1000 kW: 04.00–07.30, 11.00–12.40, 15.00–00.05.
Medium Wave: Munich A 1196 kc 251 m 150 kW: 04.00–07.30, 17.00–23.30 – **Short Wave:** Munich 8/100 kW: 02.00–08.00, 11.15–22.45

kc	m	kc	m	kc	m	kc	m
3980	75.38	6140	48.86	9765	30.72	15225	19.70
5960	50.34	6170	48.62	11770	25.49	15395	19.49
5975	50.21	9530	31.48	11840	25.34	15440	19.43
6020	49.83	9545	31.43	15170	19.78	17780	16.87
6040	49.67	9630	31.15	15185	19.76	21590	13.90

DAILY PRGR.:
Long Wave:

04.00–07.30 RIAS	19.13–19.30 **German**	21.30–22.00 Polish
11.00–12.40 RIAS	19.30–20.00 Polish	22.00–00.00 English
15.00–17.00 RIAS	20.00–21.00 RIAS	00.00–00.05 RIAS
17.00–19.15 **English**	21.00–21.30 Russian	

Medium Wave:

04.00–04.30 **English**	17.00–18.30 **English**	21.00–21.15 Serb.
04.30–04.45 Czech	18.30–19.00 Lithuan	21.15–21.30 Slovene
04.45–05.00 Serb.	19.00–19.30 Serb.	21.30–22.00 Polish
05.00–07.30 **English**	19.30–20.00 Polish	22.00–22.30 **English**
	20.00–20.30 Eston.	22.30–23.00 Czech
	20.30–21.00 Latvian	23.00–23.30 Hung.

Short Wave: See USA.
ANN.: "This is the Voice of America Relay St. at Munich" – **INT-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA – V. by QSL-card. No return postage.

GERMAN DEMOCRATIC REPUBLIC

L.T.: GMT+1 h. – **Pr.L.:** German.

STAATLICHES RUNDFUNKKOMITTEE (Go.)

ADDR.: Berlin-Oberschöneweide, Nalepastrasse 18-50. **Cable:** Funkkomitee. **Te.:** 632831 – **L.P.:** Dir. Gen.: Prof. G. Eisler. C. Kirschnek. Dir. Adm.: H. Ebel. Dir. Tec.: W. Schmidt. Dir. Foreign Rel.: M. Müller. Intendant: K. Ehrich (Deutschlandsender), H. Classen (Berliner Rundfunk), W. Kleinert (Radio DDR).
HOME SERVICE in German:
Deutschlandsender: 24 h.

185 kc	1621.6 m	200/1000 kW	692 kc	433.8 m	200 kW
782 –	383.6 –	250 kW	6115 –	49.06 –	20 –
728 –	412.1 –	220 –	7295 –	41.12 –	5 –

FM: Dequede 96.95 Mc 1 kW – Inselsberg 97.15 Mc 10 kW – Schwerin 97.3 Mc 10 kW – Leipzig 96.55 Mc 10 kW – Brocken 97.4 Mc 10 kW – Sonneberg 94.2 Mc 1 kW – Berlin 97.65 Mc 3 kW – Karl-Marx-Stadt 97.05 Mc 1 kW.
N., Wrp.: D. 01.00, 02.00, 03.00(W), 04.00, 04.30(W), 05.00, 05.30(W), 06.00, 07.00, 09.00, 11.00 (W), 12.00, 14.00 (W), 16.00, 18.30, 21.00, 23.00, 24.00 – **Comm.:** W. 18.42, 23.07 (rep). Sun. 11.00, 23.05 (rep) – **Folklore Music:** Sun. 06.20 (2nd and 4th week), Mo. 09.25, Tues., Fri. 13.00, Thurs. 15.30, Wed., Sat. 10.30.
Berliner Rundfunk 1. Prgr.: 03.30–24.00(Sat. 01.00).

	kc	m	kW		kc	m	kW
Karl-Marx-St.	602	498	20	Reichenbach	912	328.9	20
Berlin	611	491	300	Plauen	1079	278.1	20

FM: Dresden 89.8 Mc 10 kW – Leipzig 90.4 Mc 10 kW – Dequede 89.35 Mc 1 kW – Marlow 99.85 Mc 1 kW – Schwerin 89.2 Mc 1 kW – Sonneberg 91.7 Mc 1 kW.
N., Wrp.: D. 03.33 (W), 04.00, 04.30, 05.00, 05.30, 06.30, 07.30 (W), 09.30, 11.30, 12.30 (Sun.), 15.30, 16.30, 18.30, 20.30, 22.30, 23.30. **Comm.:** W.: 18.30, 23.35 (rep.). Sun. 11.00 – **Folklore Music:** Sun. 07.03, Wed., Fri. 09.00, Mo. 17.10.
Berliner Welle: 1358 kc 220.9 m 50 kW – 656 kc 457.3 m 20 kW
FM: Berlin 99.7 Mc 10 kW: D. 15.30–23.15.
N.: 16.00, 18.00, 22.00, 23.00 – **Comm.:** 18.00, 23.05 (rep. W).
Radio DDR I: 24 h.

	kc	m	kW		kc	m	kW
Schwerin	529	567.1	20	Berlin	881	340.5	100
Greifswald	557	538.6	5	Dresden	1043	287.6	240
Leipzig	575	521.7	100	Suhl	1052	285.1	20
Erfurt	629	476.9	20	Seelow	1546	194.0	5
				Bernburg	1570	191.1	

FM: Görlitz 95.4 Mc 1 kW – Leipzig 88.45 Mc 3 kW – Schwerin 92.75 Mc 10 kW.
N.: 01.00, 03.05, 04.00, 05.00, 06.00, 07.00, 09.00, 10.00 (Sun), 11.00, 12.00, 13.00 (Sat., Sun.), 15.00, 16.00, 18.00, 21.00, 23.00 – **Comm.:** Sun. 12.00, W. 18.00 – **Folklore Music:** Sun. 10.20, Mo. 07.10, 15.20, Wed. 11.20, Thurs. 07.10, 11.10, Fri. 12.15, Sat. 09.10. Wed. 17.00.
Radio DDR II: D. 17.00(Sun. 16.05) 23.00.
FM: Marlow 91.05 Mc 10 kW – Leipzig 93.91 Mc 10 kW – Rheinsberg 90.15 Mc 10 kW – Helpterberg 99.1 Mc 1 kW – Karl-Marx-Stadt 92.9 Mc 10 kW – Schwerin 98.55 Mc 10 kW – Burg 94.9 Mc 1 kW – Brocken 91.55 Mc 1 kW – Inselsberg 92.55 Mc 1 kW.
N.: 19.00, 21.00 – **Comm.:** W. 19.00.

RADIO BERLIN INTERNATIONAL:

Stations:

1133 kc	264.8 m	7300 kc	41.10 m	11975 kc	25.05 m
1430 –	210.0 –	9730 –	30.83 –	15280 –	19.63 –
6060 –	49.50 –	9725 –	30.85 –	15340 –	19.56 –
6080 –	49.34 –	11795 –	25.43 –	17825 –	16.83 –
6115 –	49.06 –	11765 –	25.50 –		

All transmissions 30 min's exc. where indicated.
EUROPEAN SCE.: 15.30–23.15 on 6060/6080/6115/7300/9730/1133/1430 kc – **English:** 17.30, 19.45, 22.00, 22.45 – **French:** 18.30, 21.30 – **German:** 16.30, 19.00, 20.45 – **Danish:** 18.00, 19.15 – **Swedish:** 17.00, 20.15 – **Italian:** 15.30, 21.00.

telecommunication journal

In the increasingly international age in which we live, it is more important than ever that everyone connected with radio should be in touch with authoritative world opinion on radio matters.

The Telecommunication Journal, the official organ of the International Telecommunication Union (ITU), serves just this purpose. Since 1869 (when it first appeared as the "Journal Télégraphique") it has faithfully covered all aspects of telecommunications which come within the purview of the world organization (now a UN specialized agency) set up in 1865 to regulate them.

The Journal has recently been completely revised and modernized.

It contains

- a news section covering the activities of the ITU, of its Member Administrations and of private operating companies and highlighting technical advances in radio throughout the world –
- articles by world experts, with a heavy emphasis recently on the latest developments in space communications-
- a monthly "Telepersonality" featuring an outstanding personality from the telecommunication world –
- a comprehensive list of articles of telecommunication interest appearing in the scientific press throughout the world –
- official ITU information, including lists of forthcoming ITU Conferences and other international telecommunication meetings –
- monthly sunspot predictions.

It is published monthly by the ITU in separate English, French and Spanish editions.

It costs 2 Swiss francs a copy. The annual subscription is 20 francs for one language edition, 30 francs for two and 40 francs for three.

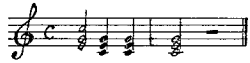
For further information, write to: Telecommunication Journal, ITU, Place des Nations, Geneva, Switzerland.

AUTHORITATIVE • READABLE • COMPREHENSIVE

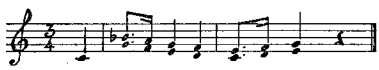
OVERSEAS SCE.: To M. East/No. Africa: Arabic: 04.00–05.00, 11.00–14.00 on 11765/15340 kc (from 11.00 also on 9730 kc), 17.00–20.00 on 11765 kc – **English:** 16.00 on 11765/15340 kc – **German:** 14.00 on 11765/15340 kc – **To C. & We. Africa:** 05.00–07.30 on 11795 kc, 11.00–14.00 on 17825 kc, 16.00–22.00 on 11975 kc – **English:** 05.00, 06.30, 12.30, 13.30, 16.00, 18.30, 19.30, 21.30 – **French:** 05.30, 07.00, 11.00, 12.00, 17.00, 18.00, 20.00, 21.00 – **To So. Ea. Asia** (on 15280 kc): **English:** 12.00–13.00, 14.00–15.00, 16.00–16.30 (on 11765 kc only) – **German:** 11.30, 13.30 – **To Latin America** on 6115/9725 kc (60 min's broadcasts): **German:** 00.00, 03.00 – **Portuguese:** 22.00, 01.00 – **Spanish:** 23.00, 02.00 – **To No. America** on 6080 kc: **English:** 01.00, 02.00 – **German:** 01.30, 02.30.

ANN.: Home Service: "Hier ist der Deutschlandsender (Berliner Rundfunk)". "Hier ist Radio DDR mit seinem Sendern". – **R. Berlin International: English:** "This is Radio Berlin International the Voice of the German Democratic Republic". **French:** "Ici Berlin International, la Republique Démocratique Allemande vous parle". (Africa Sce.: "Ici R. Berlin International, la Voix de la Republique Democratique Allemande"). **Swedish:** "Här är Radio Berlin International, Tyska Demokratiske Republikens sänding på Svenska". **Danish:** "Godaften De lytter til R. Berlin International. Den Tyske Demokratiske Republik sender til Danmark". **Italian:** "Qui Radio Berlino Internationale, la voce della Republica Democratica Tesdeca". **Portuguese:** "Radio Berlin Internacional, a voz da República Democrática Alemana". **Spanish:** "Habla Radio Berlin Internacional, la Voz de la República Democrática Alemana".

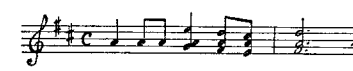
INT.-SIG.: Deutschlandsender: From "Die Meistersinger von Nürnberg" (Richard Wagner)



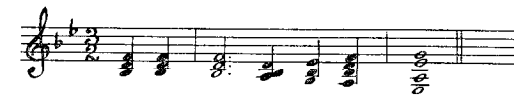
Berliner Rundfunk I: Motif from Opera "Regina" (Albert Lortzing) performed by 2 French horns.



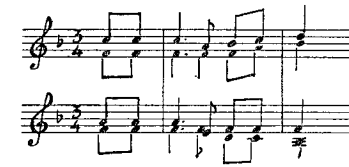
Berliner Rundfunk II: Motif: Heimat wir lassen dich nicht from the cantata "Des Sieges Gewissheit" composed by the National-Prizewinner Ernst-Hermann Meyer performed by 3 trumpets.



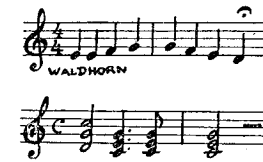
Radio DDR I: "Wann wir schreiten Seit an Seit" ("mit uns zieht die neue Zeit").



Radio DDR II: Melody: "Mit uns zieht die neue Zeit".



Foreign Sce.: Theme from Ludwig van Beethovens 9. symphony ("Freude, schöner Götterfunken"):



V. by QSL-card – **PUB.:** "Unser Rundfunk" (weekly) free on request.

BROADCASTS FROM THE COMMITTEE FOR RETURNING INTO THE HOME COUNTRY (for Russians living abroad).
ADDR.: Komitee für Rückkehr in die Heimat, Behrendstr. 64/65, Berlin W. 8. **Postal Addr.:** Berlin NW. 63, P.O. Box 6. **Te.:** 221480 – **L.P.:** Pres. V .Kirillov.
STATIONS: Leipzig: 1322 kc 226.9 m 150 kW – 9730 kc 30.83 m 50 kW.
D. PRGRS.: To We. Europe: W 05.00–06.00 on 1322/9730 kc; Sun 05.00–08.00, 09.00–11.00 on 1322/9730 kc, 11.00–12.00 on 1322 kc; D 14.55–15.55, 20.00–20.30 on 1322 kc.
Russian (own prgr.'s or relayed from Russian st.'s): D 05.00–05.30 (Sat/Sun 06.00), D 14.55–15.25(Sat/Sun 15.55). Sun also 09.00–10.30, 11.00–11.30 – **Latvian** (R. Riga): Mo 05.30–06.00, 15.25–15.15. Sun 07.30–08.00. **Lithuanian** (R. Vilnius): Fri 05.30–06.00, 15.25–15.55, Sun 11.30–12.00. **Ukrainian** (R. Kiev): Wed 05.30–06.00, 15.25–15.55 (irr.), Sun 05.00–05.30. **To No. America:** D 00.30–01.30 in 41.31 m.b. (25 m.b. in Summer). Freq's reported: 7175/7205/7290/7310/9665 kc.
Russian: 00.30–01.00(Sun, Mo 01.30). **Estonian:** (R. Tallinn): Thurs 01.00–01.30. **Lithuanian** (R. Vilnius): Sat 01.00–01.30. **Latvian** (R. Riga): Tues 01.00–01.30.
ANN.: "Govorit Radiostantsiya komitet za Vozvrashcheniye na Rodinu i Razvitiye Kulturnykh svyazeyi s Sootechestvennikami". or "Slushatye golos Rodiny – Slushatye golos Sovyetskiy Rodiny".
PUB.: prgr. sched. is printed in the journal "Golos Rodiny" (=Voice of the Home-Land").

RADIO WOLGA (Soviet Military Administration).
ADDR.: Menzelstr., Potzdam.
STATION: Königswusterhausen 263 kc 1141 m 20/150 kW.
D. PRGR.: Mo-Fri 05.00–12.00, 13.00–22.35. Sat/Sun 05.00–22.35 (relay R. Moscow I) – **Special prgr.'s for Soviet troops** in Ea. Germany: Sun 09.15–14.00, W 16.15–17.58, D 22.00–22.35. – **N.:** (relay Moscow): 05.00, 06.00, 10.00, 11.00 (W), 13.00, 14.00 (W), 16.00, 18.00, 19.00, 20.50, 22.00 – **Wrp.:** (for Ea. Germany): 13.55 (Sun), 17.55 (W), 22.30 – ANN.: "Govorit Volga".

GIBRALTAR (British Colony)

L.T.: GMT+1 h – **Pr.L.:** English, Spanish.
RADIO GIBRALTAR (Go. Comm.)
FI.: By Go. and adv. – **AD.:** 4 h per day – **ADDR.:** Wellington Front, Gibraltar. **Cable:** R. Gibraltar. **Te.:** 2519 – **L.P.:** Dir. Gen.: E. H. Davies, O.B.E. St. Mgr.: H. J. Ramagge. Dir. Tec.: T. G. Black.
STATION: Wellington Front 1484 kc 202.2 m 0.5/1 kW.
HOME SCE.: English, Spanish: D 06.55–23.00.
N.: English: 07.00, 11.00 (exc. Sat), 12.30*, 20.00, 20.15* – **Spanish:** 13.00*, 13.15, 21.15*, 21.25 – **Wrp.:** W 08.25, 13.30. Sun 08.30.
* local N., other times relay BBC.
ANN.: "This is Gibraltar" – **V.** by letter. Re. in E. or Sp. – **PUB.:** Prgr. schedule free on request.

GREAT BRITAIN

L.T.: GMT (Su.: GMT+1 h.). – **Pr.L.:** English.
THE BRITISH BROADCASTING CORPORATION
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FI.: The revenue for its Domestic Services is drawn from the Licence fees paid by listeners and viewers; the revenue for its External Services is provided by Grant-in-Aid from the Treasury. Weekly Pub.: "Radio Times", "The Listener", "London Calling", "Hier spricht London", "London Calling Europe". – Annuals: "The BBC Handbook".
ADDR.: Broadcasting House, London W.1 – **Cable:** "Broadcasts" – **Te.:** Langham 4468 – **Telex:** 22182.
L.P.: Board of Management: Dir. Gen.: H. Carleton Green, O.B.E. Dir. of External Broadc.: Sir Beresford Clark, K.C.M.G., C.B.E. Chief Asst. to Dir. Gen.: H. J. G. Grisewood, C.B.E. Dir. of Sound Broadc.: R. E. L. Wellington, C.B.E. Dir. of TV Broadc.: K. Adam. Dir. of Engineering: Sir Harold Bishop, C.B.E. Dir. of Adm.: J. H. Arkell, C.B.E.
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Regional Controllers: Wales: A. B. Oldfield-Davies, C.B.E., Midland Region: H. J. Dunkerley, C.B.E., Northern Ireland: R. C. McCall, C.M.G., Scotland: A. Stear, C.B.E., West Region: F. G. Gillard, O.B.E., North Region: R. Stead.
HOME SCE.: W. 06.45–23.36 approx. Sun. 07.50–23.36 approx.

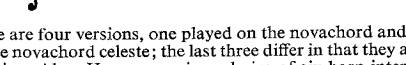
		kc	m	kW
Cromer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	or Northern	–	–	0.25
Stagshaw	–	–	–	100
Scarborough	–	–	–	2

N.: 07.00(W), 08.00, 09.00, 13.00, 18.00, 22.00, 23.00.
Greenwich T.S.: 07.00(W), 08.00(W), 09.00, 11.00(W), 13.00, 18.00, 23.00.
LIGHT PRGR.: W. 06.30–24.00. Sun. 09.00–24.00.

	kc	m	kW
Droitwich	200	1500	400
BrookmansPark	1214	247	50
Burghead	–	–	20
Lisnagarvey	–	–	10
Londonderry	–	–	0.25

	kc	m	kW
Moorside Edge	1214	247	50
Plymouth	–	–	0.25
Redmoss	–	–	2
Redruth	–	–	2
Newcastle	–	–	2
Westerglen	–	–	50

N.: Mo.–Fri. 06.30 and every h. on the half h. until 23.30, 19.00, 23.55. Sat.: 06.30 and every h. on the half h. until 12.30, 19.00, 19.30, 20.30, 22.30, 23.55. Sun.: 09.00, 10.30, 19.30, 22.30, 23.55.
Greenwich T.S.: 06.45 (200 kc only), 09.00, 10.00(W), 12.00(Sun.), 19.00(W), 19.30(Sun), 22.30.
INT.-SIG.: Oranges and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration. Also, Harp arpeggio – choice of six harp interludes.

THIRD PRGR.: 20.00(Sat. 18.00, Sun. 17.00)–23.00 approx.
647 kc 464 m: Daventry (150 kW); Edinburgh, Glasgow, Newcastle, Redmoss (2 kW). – **1546 kc 194 m:** Belfast, Bournemouth, Dundee, Exeter, Stockton (0.25 kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1 kW).
NETWORK THREE: Mo.–Fri. starts between 18.00– and 19.00–20.00. Sat. 16.00–18.00. (Transmitters as for Third Prgr.).

FM	Home Sce.	Light Pr.	Third Pr.	kWE.R.P.
Wrotham (Kent)	93.5	89.1	91.3	120
Pontop Pike (Newcastle)	92.9	88.5	90.7	60
Divis (Belfast, N. Ireland)	94.5	90.1	92.3	60
No. Hessary Tor (So. Devon)	92.5	88.1	90.3	60
Meldrum (Aberdeenshire)	93.1	88.7	90.9	60
Holme Moss (No. England)	93.7	89.3	91.5	120
Sutton Coldfield (Birmingham)	92.7	88.3	90.5	120
Talconeston (Norwich)	94.1	89.7	91.9	120

	Home Sce.	Light Pr.	Third Pr.	kWE.R.P.
Blaen Plwyf (We. Wales)	93.1	88.7	90.9	60
Wenvoe (So. Wales)	94.3*	89.95	96.8	120
	92.125**			
Rowridge	92.9	88.5	90.7	60
Kirk O'Shotts	94.3	89.9	92.1	120
Sandale (Carlisle)	94.7***	88.1	90.3	120
	92.5****			
Rosemarkie (Moray Firth)	94.0	89.6	91.8	3/12d
Llanddona (Anglesey)	94.0	89.6	91.8	3/12d
Llangollen (No. Wales)	93.3	88.9	91.1	5/11d
Isle of Man (Douglas)	92.8	88.4	90.6	2.3/5.2d
Orkney	93.7	89.3	91.5	3/20d
Thrumster	94.5	90.1	92.3	0.1/10d
Peterborough	94.5	90.1	92.3	1/21d
Dover	94.4	90.0	92.4	0.5/6.5d
Les Platons (Jersey)	97.1	91.1	94.45	0.5/1.4d
Llandrindod Wells (Central Wales)	93.5	89.1	91.3	1.4
Londonderry	92.7	88.3	90.55	2/13d
Redruth	94.1	89.7	91.9	1.1/9d
Oxford	95.85**	89.5	91.7	5
	93.9a			
Fort William	93.7	89.3	91.5	1.5

*) Welsh Home Sce. **) We. of England Home Sce. ***) Northern Home Sce. ****) Scottish Home Sce. a) Midland Home Sce.

EXTERNAL SERVICES

kc	m	kc	m	kc	m	kc	m
3952.5	75.90	9530	31.48	11905	25.20	17755	16.90
3975	75.47	9550	31.41	11910	25.19	17790	16.86
5975	50.21	9555	31.40	11920	25.17	17810	16.84
5990	50.08	9560	31.38	11930	25.15	17840	16.82
6010	49.92	9570	31.35	11945	25.12	17860	16.80
6035	49.71	9580	31.32	11955	25.09	17870	16.79
6040	49.67	9600	31.25	11960	25.08	17890	16.77
6050	49.59	9615	31.20	11965	25.07	18080	16.59
6060	49.50	9625	31.17	11970	25.06	21455	13.98
6070	49.42	9640	31.12	12040	24.92	21470	13.97
6080	49.34	9660	31.06	12095	24.80	21485	13.96
6090	49.26	9675	31.01	15070	19.91	21490	13.96
6110	49.10	9690	30.96	15105	19.86	21530	13.93
6125	48.98	9700	30.93	15110	19.85	21550	13.92
6140	48.86	9710	30.90	15130	19.83	21595	13.89
6150	48.78	9725	30.85	15140	19.82	21600	13.89
6165	48.66	9735	30.82	15180	19.76	21615	13.88
6170	48.62	9740	30.80	15200	19.74	21630	13.87
6175	48.58	9750	30.77	15210	19.72	21640	13.86
6180	48.54	9755	30.75	15230	19.70	21650	13.86
6195	48.43	9760	30.74	15245	19.68	21655	13.85
7110	42.19	9765	30.72	15260	19.66	21660	13.85
7120	42.13	9770	30.71	15285	19.63	21675	13.84
7130	42.08	9825	30.53	15300	19.61	21680	13.84
7135	42.05	9915	30.26	15310	19.60	21710	13.82
7140	42.02	11680	25.68	15360	19.53	21720	13.81
7150	41.96	11705	25.63	15375	19.51	21740	13.80
7185	41.75	11725	25.59	15390	19.49	25650	11.70
7200	41.67	11730	25.58	15400	19.48	25670	11.66
7210	41.61	11750	25.53	15420	19.46	25720	11.66
7220	41.55	11770	25.49	15435	19.44	25750	11.65
7230	41.49	11780	25.47	15445	19.42	25840	11.61
7250	41.38	11790	25.45	17695	16.95	25850	11.60
7260	41.32	11800	25.42	17700	16.95	25920	11.57
7280	41.21	11820	25.38	17705	16.94	26040	11.52
7325	40.96	11840	25.34	17715	16.93	26080	11.50
9410	31.88	11860	25.30	17730	16.92		
9510	31.55	11880	25.25	17740	16.91		
9525	31.50	11890	25.23	17745	16.91		

The above frequencies are shared between the European and Overseas Services and in addition the following frequencies on Long and Medium Waves are used in the European Services.

200 kc 1500 m 647 kc 464 m 1295 kc 232 m

FM: Berlin 90.2 Mc.

The two columns below show the wavebands which the BBC expects to use during the months from October to March and April to September. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES:

	Oct.–March m.b.	April–Sept. m.b.
In Albanian:		
17.45–18.15 N., Prgr.	31, 25	31, 25, 19
In Bulgarian:		
05.00–05.15 N., Prgr.	75, 49, 41, 31, 25	41, 31, 25, 19, 16
10.30–10.45 N., Prgr.	25, 19, 16, 13	25, 19, 16, 13
14.30–14.45 N., Prgr.	25, 19, 16, 13, 11	31, 25, 19, 16
16.15–16.30 N., Prgr.	25, 19, 16, 13	25, 19, 16
15.30–15.45 E. by R. (Tues. Thurs., Sat.)	25, 19	25, 19
20.30–21.00 N., Prgr.	49, 41, 31, 25	31, 25, 19
In Czech:		
07.00–07.15 N., Tues, Thurs., Fri. Sun.	1500, 464, 232 75, 49, 41, 31	49, 41, 31, 25, 19, 16
11.30–11.45 (CBC)	25, 19, 16	31, 25, 19, 16
13.45–14.00 N., Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16
17.30–17.45 E. by R. Sun., Tues., Thurs., Sat.	41, 31, 25	31, 25, 19
19.00–19.30	49, 41, 31	31, 25, 19
22.00–22.15 Mo., Tues., Wed., Fri., Sat.	232, 75, 49, 41	464, 49, 41, 31, 25
15.30–16.00 Sun. only	25, 19	25, 19
In Slovak:		
07.00–07.15 Mo., Wed., Sat.	1500, 464, 232 75, 49, 41, 31	49, 41, 31, 25, 19, 16
11.45–12.00 N., Prgr.	31, 25, 19, 16	41, 31, 25, 19, 16
17.00–17.15 N., Prgr.	41, 31, 25, 19	31, 25, 19
22.00–22.15 Thurs., Sun.	232, 75, 49, 41	464, 49, 41, 31, 25
In English:		
05.15–05.30 E. by R.	75, 49, 41, 31	49, 41, 25, 19
06.00–06.30 N., Prgr.	464, 75, 41, 31	49, 41, 31, 25, 19
06.45–07.00 E. by R.	464, 232, 75, 49, 41, 31, 25	464, 232, 49, 41, 31, 25, 19[1]
09.15–09.30 Rel. Sce.(W)	—	31, 25
10.15–10.30 Rel. Sce.(W)	31, 25	—
12.15–12.30 E. by R. 12.30–12.45 E. by Dict. 12.45–13.00 N., Dict.	31, 25, 19, 16	41, 31, 25, 19, 16
17.15–17.30 E. by R.	232, 49, 41, 31, 25, 19, 16	232, 41, 31, 25, 19, 16
17.30–18.15 N., Prgr. 18.15–18.30 Press Rev.	232, 49, 41, 31, 25	232, 41, 31, 25, 19
19.45–20.00 E. by R. 20.00–20.15 Dict. 20.15–20.30 N., Dict.	75, 49, 41, 31	49, 41, 31, 25, 19
21.30–21.45 E. by R.	75, 49, 41, 31	75, 49, 41, 31
21.45–22.00 N.	232, 75, 49, 41	232, 49, 41, 31
22.15–22.30 E. by R.	75, 49, 41, 31	75, 49, 41, 31
In Finnish:		
15.30–16.00 (Sun.)	31, 25	31, 25
15.45–16.00 E. by R. (Mo. Wed., Thurs., Sat.)	31, 25	31, 25
16.00–16.45 N., Prgr.	41, 31, 25	31, 25
19.30–19.45 N.	75, 49, 41	41, 31
In French:		
05.15–05.45	232	232
07.30–08.00	464, 75, 49, 41	464, 41, 31, 25
11.30–12.15	464, 41, 31	464, 31, 25, 19
18.30–19.30	75, 49, 41	232, 49, 31, 25
In German:		
04.45–05.15 N, Prgr.	1500, 232, 75, 49[1]	1500, 232, 49, 41, 31[1]
05.45–06.30 N, Prgr.	1500, 232, 75, 49, 41	232, 49, 41, 31[1]
12.45–13.00 Rel. (Sun.) 12.30–12.45 N	232, 31, 25, 19[1]	232, 49, 41, 31, 25, 19[1]
18.30–18.45 (CBC)	232, 49	232, 41
18.45–19.30	232, 75, 49, 41	232, 25, 41
19.30–19.45 E. by R.	232, 75, 49, 41	232, 25, 41
19.45–21.15 N. Prgr.	232, 75, 49, 41[1]	232, 41, 31[1]
In Greek:		
05.00–05.15 N. Prgr.	41, 31	25, 19
12.45–13.00 N. Prgr.	16, 13	25, 19
18.30–19.00 N. Prgr.	25, 19	19, 16
20.15–20.30 E. by R. (Sun., Mo., Wed., Fri.)	49, 31	25, 19
In Hebrew:		
21.15–21.45 N. Prgr.	31, 25, 19	25, 19, 16
In Hungarian:		
05.45–06.00 N.	75, 49, 41, 31	41, 31, 25, 19, 16
06.45–07.00	75, 49, 41, 31	41, 31, 25, 19, 16
12.00–12.15 N. Prgr.	31, 25, 19, 16, 13, 11	25, 19, 16, 41, 31
13.00–13.15 N. Prgr.	31, 25, 19, 16, 13	—
14.00–14.15 N. Prgr.	—	31, 25, 19, 16
16.45–17.00 N. Prgr.	41, 31, 25, 79, 16	31, 25, 19
17.30–17.45 E. by R. (Mo., Wed., Fri.)	41, 31, 25, 19, 16	31, 25, 19
19.30–20.00 N. Prgr.	49, 41, 31, 25	31, 25, 19, 16
21.45–22.00 N. Prgr.	75, 49, 41	232, 41, 31, 25
In Italian:		
18.30–18.45 N. Prgr.	41, 31, 25	31, 25
22.30–23.00 N. Prgr.	49, 41	41, 31

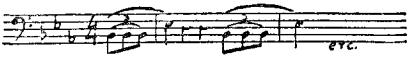
Great Britain

In Polish:	Oct.-March m. b.	April-Sept. m. b.
04.30–04.45 N. Prgr.	—	49, 41, 31, 25
05.30–05.45 N. Prgr.	1500, 464, 232, 75, 49, 41, 31	49, 41, 31, 25, 19
12.45–13.00 E. by R. (Wed., Sat.)	31, 25, 19, 16	31, 25
13.00–13.15 N. Prgr	—	41, 31, 25, 19, 16
13.15–13.30 (CBC)	31, 25, 19	31, 25, 19
14.00–14.15 N. Prgr.	41, 31, 25, 19, 16	—
17.15–17.30 N. Prgr.	—	31, 25, 19
18.15–19.00 N. Prgr.	49, 41, 31	31, 25, 19
21.15–21.45 N. Prgr.	75, 49, 41	49, 41, 31, 25
22.00–22.15 N. Prgr.	232, 75, 49, 41	—
In Rumanian:		
05.15–05.30 N. Prgr.	75, 49, 41, 31, 25	41, 31, 25, 19
10.15–10.30 N. Prgr.	19, 16, 13, 11	25, 19, 16, 13
14.15–14.30 N. Press Rev.	25, 19, 16, 13, 11	31, 25, 19, 16
15.30–15.45 E. by R.	25, 19, 16, 13, 11	31, 25, 19, 16
16.00–16.15 N. Prgr.	25, 19, 16, 13	25, 19, 16
19.00–19.30 N. Prgr.	41, 31, 25	31, 25, 19, 16
21.00–21.15 N. Prgr.	75, 49, 41, 31	41, 31, 25, 19
In Russian:		
03.30–03.45 CBC	49, 41, 31, 25, 19	49, 41, 31, 25, 19
03.45–04.15	464, 75, 49, 41, 31, 25	41, 31, 25, 19
11.00–11.15		25, 19, 16
14.45–15.30 N. Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16
15.30–15.45 (Mo., Wed., Thurs., Sat.)	31, 25, 19, 16	31, 25, 19, 16
15.30–16.00 (Tues., Fri.)		
17.00–17.15 E. by R.	41, 13, 25, 19	31, 25, 19, 16
17.45–18.15 N. Prgr.	49, 41, 31, 25, 19	31, 25, 19, 16
20.30–21.00 N. Prgr.	75, 49, 41, 31	41, 31, 25, 19
In Spanish:		
13.15–13.30 N. Prgr.	31, 25, 19	25, 19
21.15–22.00 N. Prgr.	49, 41	31, 25
22.00–22.15 (Mo., Wed., Thurs., Fri.)	49, 41	31, 25
In Turkish:		
05.30–05.45 N. Prgr.	41, 31, 25, 19	25, 19
15.45–16.00 N. Prgr.	25, 19, 16	19, 16
19.00–19.30 N. Prgr.	31, 25, 19	19, 16
20.15–20.30 E. by R. (Tues., Thurs., Sat.)	49, 31, 25	25, 19
In Serbo-Croat:		
13.15–13.30 N. Prgr.	25, 19	19
13.30–13.45 E. by R. (Mo., Wed.)	25, 19	19
13.30–13.45 N. Prgr. (Sun.)		
15.15–15.45 Slovene (Sun.)	25, 19	19
16.30–16.45 N. Prgr.	25, 19	25, 19
18.15–18.30 Slovene	41, 31, 25	25, 19
19.30–20.15 N. Prgr.	49, 31	25, 19

[1]) also 90.2 Mc Berlin.

GREENWICH T.S. at the h. are radiated on one or other of the European Prgr.s on the long, medium or s.w. normally scheduled at 05.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 21.00, 22.00. – Big Ben: 12.00.

ANN.: E.: "This is London calling in the European Service of the BBC". – **Fr.:** "Ici Londres". – **G.:** "Hier ist England". – **I.:** "La Voce di Londra". – **INT.-SIG.: for European Service:** Morse Signal "V" (V for Victory) played on Timpani (i.e. ...–).



OVERSEAS SERVICES:

GENERAL OVERSEAS SERVICE:

The General Overseas Service, which operates for 22¼ hours a day, (03.30–08.00, 09.15–03.00) and which can be heard at suitable listening times all over the world, is addressed to English-speaking listeners wherever they may be. All Prgr.s are in English. The Times at which the General Overseas Service is directed to various parts of the world and the appropriate wavebands are:

Australia:	Oct.-March m.b.	April-Sept. m.b.
06.00–08.00	41, 31, 25	41, 31, 25
09.15–11.30	16, 13	25, 19
20.00–22.15	41, 31	31, 25
New Zealand:	**Oct.-March m. b.**	**April-Sept. m. b.**
06.00–08.00	31, 25	49, 41, 31, 25
09.15–11.30	19, 16	25, 19
20.00–22.15	31, 25	31, 19, 25
Japan, No. China, NW Pacific:		
09.15–11.30	25, 19	25, 19
So. Ea. Asia, India, Pakistan, Ceylon:		
00.00–00.30	41, 31	31, 25
01.45–02.15	41, 31	31, 25
09.15–18.15	25, 19, 16, 13, 11	25, 19, 16, 13
23.00–23.15	41, 31	31, 25
Ea. Africa, Arabia, Cyprus, Egypt., Iraq, Iran, Israel, Jordan, Lebanon, Sudan, Turkey:		
03.00–08.00	41, 31, 25, 19, 16, 13	31, 25, 19, 13
09.15–21.15	49, 25, 19, 16, 13, 11	49, 31, 25, 19, 13
Malta, Greece, Italy, C. Mediterranean, No. Africa:		
03.30–08.00	49, 41, 31, 25	41, 31, 25
09.15–22.45	49, 41, 31, 25, 19, 16	41, 31, 25, 19, 16
C. and So. Africa:		
03.30–08.00	41, 31, 25, 19, 16	41, 31, 25, 19, 16, 13
09.15–22.45	31, 25, 19, 13, 11	41, 31, 25, 19, 16, 13
Gibraltar, W. Mediterranean, We. Africa, N.W. Africa:		
04.30–08.00	49, 41, 31, 25, 19	41, 31, 25, 19
09.15–22.45	49, 41, 31, 25, 19	31, 25, 19
So. Georgia:		
22.15–00.30	31, 25	41
Canada, USA, Mexico:		
21.15–03.00	49, 31, 25	31, 25, 19, 16
We. Indies, C. American, So. America (No. Amazon):		
20.00–22.15	31, 25, 19	25, 19, 16, 13
22.45–03.00	49, 31, 25	31, 25, 19, 16
So. America:		
20.00–03.00	31, 25, 19, 16	31, 25, 19, 16

N.: 00.00, 02.00, 03.00, 03.30, 04.00, 05.00, 06.00, 07.00, 09.15, 11.00, 13.00, 16.00, 18.00, 20.00, 23.00.
N. about Britain: 04.09, 06.24, 07.20, 13.09, 18.09, 23.09.
Radio Newsreel: 00.15, 06.15, 07.45, 14.00, 18.15.
From the Editorials: 00.50 (ex. Sun.), 03.35, 05.09, 07.09, 09.30.
Greenwich T.S.: 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 11.00, 13.00, 14.00, 16.00, 18.00, 20.00, 23.00.
Big Ben: 14.00 (Full Strike).
Short Wave Listeners Corner: Tues. 10.15, Wed. 00.30, Thurs. 15.45.
ANN.: "This is the General Overseas Service of the BBC".
INT.-SIG.: Bow Bells.
The General Overseas Service is also rebroadcast by the BBC Far Eastern Station and by the East-Mediterranean-Relay.

PACIFIC SERVICE (English):

Australia, New Zealand:	Oct.-March m.b.	April-Sept. m.b.
06.15–07.00		
08.00–08.15	31, 25, 19	41, 31, 25
08.00–08.45 (Nov.-Febr.)		
ASIAN SERVICE:		
China and Japan:		
11.00–11.30	25, 19, 16	19
12.00–12.45	16, 13	19
South East Asia:		
10.30–13.00	13, 11	16, 13
13.15–14.15	13, 11	19, 16, 13
India, Pakistan, Ceylon:		
10.00–10.30	19, 16, 13	19, 16, 13, 13*
14.15–15.45		
Iran:		
16.15–17.00	25, 19, 16, 13	25, 19, 16, 13

10.00 Bengali (Mo., Wed., Sat.), Sinhalese (Tues., Fri.), Tamil (Sun., Thurs.), 10.30 Indonesian, 11.00 Japanese, 11.30 Vietnamese, 12.00 Kuoyu, 12.30 Cantonese, 12.45 Malay, 13.15 Thai, 13.45 Burmese, 14.15 Urdu, **East Africa:** 15.00 Hindi, 16.15 Persian.

ARABIC SERVICE:		All year round
M. East, C. Med.:	03.45–05.45	75, 49, 41, 31
	11.00–21.00	31, 41, 25, 19, 16, 13
Ea. Africa:	03.45–05.45	31, 25, 19
	11.00–21.00	31, 25, 19, 16, 13, 11
No. Africa, Morocco, W. Med.:	04.45–05.45	49, 41, 31
	11.00–21.00	31, 25, 19

SCE. TO EA. AFRICA:	m.b.	SCE TO WE. AFRICA:	m.b.
03.30–03.45 Swahili	75, 41, 31, 25	11.00–11.45 English	16, 13, 11
10.00–10.15 Swahili	16, 13, 11	05.45–06.00 Hausa	41, 31, 25, 19
10.15–11.00 English	16, 13, 11	13.45–14.15 Hausa	16, 19, 13, 11
14.30–15.00 Somali	19, 16, 13 11	19.30–19.45 Hausa	31, 25, 19, 16, 13
15.45–16.15 Swahili	19, 16, 13, 11		

SCE. TO MAURITIUS:
09.45–10.00 (altern. Mo.) in English/French in 16, 13, 11 m.b.

SCE. TO C. AFRICA:	**Oct.-March m.b.**	**April-Sept. m.b.**
09.45–10.00 English (Thurs.)	16, 13, 11	16, 13

SCE. TO WEST-EQUATORIAL AFRICA, NO. AFRICA:

French:	**m.b.**		**m.b.**
05.15–05.45	41, 31, 25, 19	12.00–13.30	19, 16, 13, 11
07.30–08.00	25, 19, 16, 13	18.30–19.30	31, 25, 19, 16, 13

SCE. TO MALTA:
15.00–15.15 Maltese 25, 19, 16

SCE. TO FALKLAND ISLANDS:

	Oct.-March m.b.	**April-Sept. m.b.**
22.00–22.30 (Sun.) **English**	31, 25	31, 25, 19

SCE. TO W. INDIES:
22.15–22.45 English 31, 25, 19 25, 19, 16, 13
NORTH AMERICAN SCE.:
Canada, USA, Mexico:
15.30–18.00*) 19, 16
14.30–16.00**) 19, 16
*) English exc. 15.52 (Fri.), 16.55–17.00 (Mo.-Fri.) 17.30 (Thurs.) when French. **) English exc. 14.52 (Fri.), 15.55–16.00 (Mo.-Fri.), 17.30 (Thurs.) when French.
LATIN AMERICAN SERVICE:
C. Am., So. Caribbean Area, So. Am. (No. of Amazon):

		m.b.	**m.b.**
Spanish:	01.15–03.15	49, 31, 25	31, 25
Portuguese:	23.00–00.15	31, 25, 19	31
Mexico:			
Spanish:	01.15–03.15	49, 31	31, 25
So. Am. (So. of Amazon):			
Portuguese:	23.00–00.15	25, 19	31, 25
Spanish:	00.15–02.15	25, 19, 16	31, 25

N. in Spanish: 00.15, 01.15, 02.00, 03.00. – **N. in Portuguese:** 23.00, 00.00.
BBC FAR EASTERN STATION: See Singapore.
EAST MEDITERRANEAN RELAY: See Cyprus.
CENTRAL MEDITERRANEAN RELAY: See Malta.
EAST AFRICAN RELAY: See Somalia.
VOICE OF AMERICA RELAYS IN GREAT BRITAIN (BBC)
ADDR.: Voice of America, Washington 25, D.C., USA.
DAILY PRGR.: Blue Stars Network: 14.00–22.00.

15.00–15.30	Russian	18.30–19.00	Estonian
15.30–16.00	Ukrainian	19.00–19.30	Russian
16.00–16.30	Polish	19.30–20.00	Polish
16.30–17.00	Lithuanian	20.00–20.30	Russian
17.00–17.30	Russian	20.30–21.00	Czech
17.30–18.00	Latvian	21.00–21.30	Russian
18.00–18.30	Russian	21.30–22.00	French (to W. Africa)

Grey Stars Network: 15.00–22.00.

14.00–14.30	Georgian	18.30–19.00	Hungarian
14.30–15.00	Armenian	19.00–19.30	Serbo-Croat
15.00–15.30	Georgian	19.30–20.00	Bulgarian
15.30–16.00	Armenian	20.00–20.30	Albanian
16.00–16.30	Russian	20.30–21.00	Rumanian
16.30–17.00	Bulgarian	21.00 21.15	Serbo-Croat
17.00–17.15	Slovene	21.15–21.30	Slovene
17.15–17.30	Greek	21.30–22.00	Hungarian
17.30–18.00	Rumanian		

CROWBOROUGH: 15.00–18.00 15435 We. Africa, 19.30–22.30 9635 We. Africa.

15.00–18.00	English	21.30–22.00	French
19.30–20.00	French	22.00–22.30	English
20.00–21.30	English		

ANN.: The BBC announces its relay of the Voice of America programme stating the language and relay frequencies – V. by QSL-card.

GREECE

L.T.: GMT+2 h – **Pr.L.:** Greek.
NATIONAL HELLENIC BROADCASTING INSTITUTE (Ethnikon Idhryma Radhiophonias, Go. Statutory Body of Public Law) – **FI.:** By license payment and adv.
ADDR.: 4 Righillis St., Athens (K). Studios: Zappeion Bldg., Athens (K). **Cable:** Radiost Athens. **Te.:** 714151.
L.P.: Pres. of the Adm. Council: G. Sophronopoulos. Dir. Gen.: C. Bastias. Dir. Tec.: V. Aslanides.
HOME SERVICE:

	kc	m	kW		kc	m	kW
Athens (Nat.)	728	412.1	150	Volos*	1484	202.2	1
Athens (2' Prgr.)	1385	217.0	50	Rodos*	1493	201.0	5
Athens (3' Prgr.)	665	451.2	15	Patras*	1511	198.5	0.2
Corfu*	1007	298.0	50	Chania*	1511	198.5	5
Thessaloniki*	1043	287.6	5	Amalias*	1562	192.1	1.25
Comotini*	1403	213.8	5	* Nat. & Reg.			

NAT. PRGR.: Wi.: W: 05.00–08.02, 10.30–23.02(Sat 00.02). Sun 05.00–23.02; Su.: W 05.00–08.02, 10.30–13.15, 15.00–23.02(Sat 00.02). Sun 05.00–23.02.
N.: Wi: 05.15, 05.45*, 06.00, 08.00(W), 11.00, 12.30(W), 16.00, 16.58(W), 18.00**, 19.30, 22.00. Su: 05.15, 05.25*, 07.00(W), 08.00, 11.00, 12.30(W), 16.00, 16.58(W), 18.00**, 19.30, 22.00.
* English & French. ** incl. Newsreel.
Wrp.: Wi: W 05.25, 13.30. Su: W 05.25, 12.43, 18.18, 22.05. Sun: 11.15, 18.18, 22.05.
2' PRGR.: Wi.: 05.00–13.15, 15.00–21.30 (Sun 05.00–21.30). – **Su.:** W 05.00–07.00, 08.00–13.15, 15.00–21.30. Sat 05.00–07.00, 10.30–13.15, 15.00–21.30 (Light prgr. mainly).
3' PRGR.: D: 17.00–22.00. (Serious musical prgr.s only).
NAT. PRGR. & REG.: D. Morning, Midday, and Evening Prgr. (Reg. and Rel. National Prgr. 728 kc). **Approx. h. of tr.:** As Nat. Prgr.
ANN.: Nat. Prgr.: "Ethnikon Proghramma". **2' Prgr.:** "Dhéfteron Proghramma". – **3' Prgr.:** "Triton Proghramma" – **Reg. Prgr.:** "Edho' ...(Athinai, Kérkyra, Thessaloniki, Patras etc.)". (This is... (Athens, Corfu, Salonika, Patras etc.).
STATION-SIG.: Used by all m.w. stations of NBI: "Tsopanakos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells.

INT.-SIG.: "Musical Box", played on vibraphone.
FOREIGN SERVICE: Athens – 7.5/5 kW.

5960 kc 50.34 m	9605 kc 31.20 m	17745 kc 16.90 m
6075 – 49.38 –	11720 – 25.60 –	17780 – 16.87 –
6175 – 48.58 –	11925 – 25.15 –	21485 – 13.96 –
7140 – 42.01 –	15345 – 19.55 –	21565 – 13.91 –
7295 – 41.12 –	15425 – 19.44 –	25645 – 11.69 –
		25965 – 11.55 –

Time	Area	kc	Language
07.00–08.15(W) } 05.45–08.15(Sun) }	Cyprus	9605/11720	Greek[1]
09.00–10.00[2]	Egypt	9605/11720	Greek
10.30–13.00	Cyprus	9605/11720	Greek
13.30–15.15	Turkey/Balkans	7295/9605	[3]
16.00–17.00	Cyprus/N.East	7295/9605	Greek[4]
17.20–17.40	France/England	11720/15345	French/English
18.15–18.45	Cyprus	7295/9605	Greek
19.00–20.00	No.We.Europe	9605/11720	Greek
22.00–22.30	Mediterr	9605/11720	Greek[5]
23.00–23.30	Mediterr.	9605/11720	Greek[6]

[1] N. at 07.00. [2] exc. Mo. [3] Turkish, Serbian, Rumanian, Bulgarian, Albanian. [4] 16.00–16.20 N. at dictation speed. [5] N., Messages to Shipping. [6] Rep. of 22.00–22.30 prgr. – Other prgr.'s consist of Nat. Music. Talks and Features.
ANN.: **Gr.:** "Edho Radhiophonikós Stathmós Athinón Vrachèon Kymàtón" – **E.:** "This is Radio Athens the Voice of Greece" – **F.:** "Ici Radio Athènes la Voix de la Grèce".
STATION SIG.: See Home Sce. – **V.** by QSL-card or letter. Rp. preferred – **PUB.:** "Radhioproghramma" (weekly in Greek).

FORCES BROADCASTING STATIONS (Greek)
ATHENS (Central) – **FI.:** By adv. only – **ADDR.:** Radhiostathmos Enoplon Dhynameon, 136-Messoghion St., Aghia Paraskevi, Athens. **Te.:** 662929.
L.P.: Dir. Gen.: A. Patsarisis. Mgr.: I. Kalogeratos.
STATIONS: 1313 kc 228.4 m 20 kW – 6045 kc 49.63 m 5 kW.
D.PRGR.: Wi.: W 05.00–08.00, 10.00–22.30, Sun 05.00–22.30 – Su.: W 04.30–08.00, 10.00–23.00, Sun 05.00–23.00. N.: D 05.00, 12.20, 18.50 – **L.L.:** (English): Mo, Wed, Fri 12.50 – **Rel. (Orthodox:)** Sun 06.30–08.00.
ANN.: "Edhó Athinai, Kendrikós Radhiophonikós Stathmós Enóplon Dhynámeon Helládhos" (This is Athens, the Central Radio Station of the Greek Armed Forces).
STATION SIG.: The main motif from the march "Greece never dies", played on trumpets.

V. by letter.

	kc	m	kW	h. of tr.
Florina	1142	262.7	1	05.30–07.00, 10.00–13.00, 15.30–19.00
Jannina	7150	41.96	0.3	05.00–07.00, 09.30–12.30, 15.30–21.00
Kavalla	1355	221.3	0.2	05.00–08.00, 10.00–13.00, 15.30–21,00
Kozani	7215	41.58	0.5	05.00–07.00, 10.00–13.00, 16.00–20.30
Larissa	5955	50.38	0.5	05.00–07.00, 10.00–13.00, 16.00–21.00
Serrai	7161	41.89	0.5	05.00–07.00, 10.00–12.30, 16.00–21.30
Thessaloniki	1169	256.6	1	05.00–07.00, 10.00–13.00, 15.00–21.30
Tripolis	6003	49.97	0.5	05.00–07.00, 09.30–12.30, 15.30–21.00

F.PL: All sw' st's exc 6045 kc to be replaced by medium-waves.

PRIVATE BROADCASTING STATIONS

Though Greek Broadcasting is mainly performed by the NBI and the FBS's a few private st's are in function from time to time.

AMERICAN FORCES RADIO SERVICE: See USA.

VOICE OF AMERICA RADIO STATION IN GREECE

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
M.W.: Thessaloniki-A 791 kc 379.2 m 50 kW: 10.30–13.30, 15.30–23.00 – S.W.: Thessaloniki 35 kW: 14.00–23.00.

kc	m	kc	m	kc	m	kc	m
5995	50.04	6185	48.50	9715	30.88	11880	25.25
6040	49.67	7205	41.64	11760	25.51	15305	19.60

08.15–10.30	Greek (R. Thessaloniki). *Sunday only*	18.30–19.00	Bulgarian
		19.00–19.30	*Serbo-Croat*
10.30–13.50	Greek (R. Thessaloniki)	19.30–20.00	Bulgarian
		20.00–20.30	Albanian
15.30–17.00	Greek (R. Thessaloniki)	20.30–21.00	Rumanian
		21.00–21.15	Serbo-Croat
17.00–17.15	Music	21.15–22.15	Greek (R. Thessaloniki)
17.15–17.30	Greek		
17.30–18.00	Rumanian	22.15–22.30	Serbo-Croat
18.00–18.30	English	22.30–23.00	Hungarian

Short Wave: See USA.
ANN.: "This is the Voice of America Relay St. at Thessaloniki" – INT.-SIG.: *Choir of brass playing 10 note version of "Columbia, the Gem of the Ocean".* See USA – V. by QSL-card. No return postage required.

VOICE OF AMERICA SEABORNE RADIO STATION DODECANESE ISLANDS

Seaborne Radio Station aboard *U.S.C.G.C. "COURIER"*, currently located at the Island of Rhodes.
ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
M.W.: Courier-A 1259 kc 238 m 150 kW: 04.00–07.30, 16.00–22.30
S.W.: Courier 35 kW: 04.00–07.30, 14.00 22.30

kc	m	kc	m	kc	m	kc	m
6015	49.88	6185	48.50	7130	42.08	9530	31.48

DAILY PROGRAMMES:

04.00 06.00 Arabic	14.30–15.00 Armenian	16.30–17.00 Turkish
06.00–07.30 **English**	15.00–15.30 Georgian	17.00–21.00 Arabic
14.00–14.30 **English**	16.00–16.30 **English**	21.00–22.30 English

ANN.: "This is the Voice of America Relay St. at Rhodes" – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA – V. by QSL-card. No return postage required.

HOLLAND

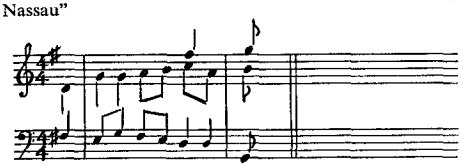
L.T.: GMT+1 h – Pr.L.: Dutch.

NEDERLANDSCHE RADIO UNIE

ADDR.: P.O. Box 150, Hilversum – Cable: Radiounie.

HOME SERVICE

The Dutch prgr.'s for home are provided by the following broadcasting societies:
A.V.R.O.: Algemeene Vereeniging Radio-Omroep, Head Office Amsterdam, Keizergracht 107. Studios: Hilversum, 's-Gravelandseweg, 52 – L.P.: Chairman: Jhr. Th. Röell. Secr.: H. A. Wassenbergh LL. D. Treasurer: E. A. Timmer. Man. Dir. (Sound & TV): H. de Wolf.
K.R.O.: Katholieke Radio-Omroep: Head-Office: Amsterdam, Keizersgracht 151. Studios: Hilversum, Emmastraat 52 – L.P.: Chairman: H. W. van Doorn LL.D. Secr.: Dr. Ir. L. J. N. van der Hulst. Treasurer: Th. Loerakker. Man. Dir. (Sound & TV): Drs. A. J. J. v. d. Made.
N.C.R.V.: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum – L.P.: Chairman: A. B. Roosjen LL.D. Secr.: G. A. Kieft. Man. Dir. (Sound & TV): A. H. v. d. Veen LL.D.
V.A.R.A.: Omroepvereeniging VARA, Heuvellaan 33, Hilversum – L.P.: Chairman: J. A. W. Burger LL.D. Secr.-Treas.: J. W. Lebon. Prgr. Secr. (Sound): J. B. Broeksz. Prgr. Secr. (TV): J. W. Rengelink.
V.P.R.O.: *Vrijzinning Protestantse Radio-Omroep, s'-Gravelandseweg* 65, Hilversum – L.P.: Chairman: Dr. J. A. de Koning. Secr.: Dr. E. D. Spelberg. Treasurer: Ir. K. Kooy. Man. Dir.: Dr. E. D. Spelberg (Sound), Drs. J. A. van Nieuwenhuysen (TV). Central Address for Prgr. Publications: Central Bureau voor den Omroep in Nederland, Hilversum, P.O. Box 52 (for Sound & TV).
BOARD OF THE NEDERLANDSCHE RADIO-UNIE: Chairman: A. B. Roosjen LL.D. Secr.: J. W. Lebon. Treasurer: Jhr. Th. Röell. Members: Dr. J. A. de Koning, J. B. Broeksz, Drs. A. J. J. v. d. Made, H. de Wolf, H. W. van Doorn LL.D., A. H. v. d. Veen LL.D.
STATIONS:
Hilversum: I: 746 kc 402.1 m 120 kW – II: 1007 kc 297.9 m 120 kW.
Rel.: Hengelo, Hoogezand, Hulsberg: 1594 kc 188 m 7.5 kW.
FM-relay-st's.: (I=relay Hilversum I, II=relay Hilversum II): Hoogezand 94.9 Mc (I), 97.45 Mc (II), Hulsberg 92.1 Mc (I), 95.3 Mc (II), Irnsum 93.95 Mc (I), 98.95 Mc (II), Lopik 92.6 Mc (I), 96.8 Mc (II), Markelo 91.4 Mc (I), 96.2 Mc (II), Mierlo 90.9 Mc (I), 94.5 Mc (II).
D. PRGR.: Hilversum I & II: W. 06.00–23.00 Sun 07.00–23.00. N.: 1st and 3rd quarter: Hilversum I: D.: 06.00 (W), 07.00, 12.00, 17.00 (W), 18.45 (Sun), 21.30, 22.55 – Hilversum II: D.: 06.00 (W), 07.00, 12.00, 16.50 (Sun), 18.00 (W), 21.30, 22.55.
2nd and 4th quarter: Hilversum I as Hilversum II – Hilversum II as *Hilversum I.*
ANN.: "Hier is de AVRO". "Hier is de KRO" etc.
INT.-SIGN: Three first bars from the National Anthem "Wilhelmus van Nassau"



V. by QSL folder.

RADIO NEDERLAND WERELDOMROEP (non-comm.)

FL.: By license payments – ADDR.: Radio Nederland, P.O. B. 222, Hilversum. Office: Witte Kruislaan 55, Hilversum. Cable: Mundivox. Te.: 16151 – L.P.: Dir. Gen.: L. F. Tijmstra. Deputy Dir. Gen.: C. J. Strop. Directors: Central Prgr. Sce.: J. W. Acda. N. Sce.: M. L. Snyders. Dutch Sce.: F. Thors. International Sce.: H. J. P. J. van Eijndhoven. Transcription Sce.: Lod. Prins. Dir. Tec.: V. J. de Grijs. Producer "Happy Station" Prgr.: Edw. Startz.

STATIONS: Lopik WO1 50 kW; WO2, 3, 4 100 kW: WO5 10 kW.

kc	m	kc	m	kc	m	kc	m	kc	m
5980	50.17	9630	31.15	11780	25.47	15365	19.52	21480	13.96
5985	50.13	9715	30.88	11800	25.42	15425	19.45	21565	13.91
6020	49.83	9730	30.83	11915	25.18	15445	19.43	21625	13.87
6025	49.79	9745	30.78	11935	25.14	17775	16.88	21715	13.82
6035	49.71	11710	25.62	11950	25.10	17800	16.85	25610	11.71
6085	49.30	11730	25.58	11955	25.09	17810	16.84	26040	11.51
9590	31.28	11755	25.52	15220	19.71	17840	16.82		

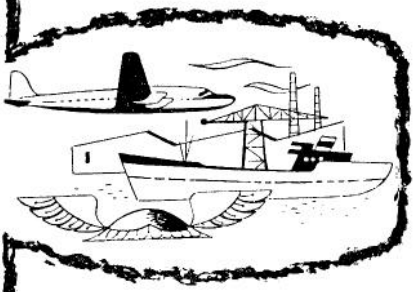
OPERATION SCHEDULE: I=So. Africa; II=M. East, Europe; III=No. Africa; IV=No. America; V=New Zealand, We. No. America; VI=Australia, New Guinea; VII=Africa, Far East, Europe; VIII=So. Ea. Asia, Europe; IX=M. East, X=Netherlands Antilles, Surinam; XI=Africa, Europe; XII=We. Africa; XIII=New Guinea, Ea. Australia; XIV=So. America (South); XV=Indonesia, We. Australia, Europe; XVI=So. America (North), We. Indies; XVII=New Zealand, Australia; XVIII=So. Asia; XIX=No. America, Europe; XX=Indonesia, Europe; XXI=Mexico, XXII=Spain, No. Africa; XXIII=Europe, Far East; XXIV=Africa, So. Asia, Europe; XXV=So. America, Europe.

Afrikaans	Areas	Oct-April kc	May-Sept kc
15.30–16.20 (W)	I	17775, 15425	21480, 17775
Arabic			
16.00–17.50 (D)	II	11730, 9590, 6020	17775, 15220, 6020
18.00–19.50 (D)	III	9590, 6085	11730, 9590
Dutch:			
01.30–03.20 (D)	IV	9715, 6085	9715, 6085
06.00–07.00 (D)	V	11730, 9630, 9715	11730, 9715, 9630
08.00–09.00 (D)	VI	11730, 9715	11730, 9715, 9630
09.00–10.20 (Sun)	VII	21480, 17810, 6020	21480, 17810, 6020
13.00–14.50 (D)	VIII	17775, 15425, 6020	17810, 15425, 6020
16.30–16.50 (W)	IX	11710, 9715	17810, 15425
17.00–17.20 (W)	X	17775, 15425	17775, 15425
17.30–19.20 (D)	XI	11950, 9715, 6020	15425, 11950, 6020
20.00–20.20 (W)	XII	9590, 6085	11730, 9590
20.30–20.50 (D)	XIII	9715, 5985	11730, 9715
21.00–22.50 (W)	XIV	11730, 9715, 6035	15425, 17710
21.00–22.20 (Sun)	IV	9590, 6085	11730, 9715
22.30–22.50 (D)	XV	9715, 6020	11730, 9715, 6020
23.00–01.20 (D)	XVI	(11730), 9715, 6020, 6035	11710, 11730, 9715 6020
English			
01.30–02.20[1])	IV	5985, 6035	9590, 5985
07.00–07.50 (W)	XVII	11730, 9630, 9715	11730, 9630, 9715
14.00–14.50 (W)	XVIII	17810, 15445	17810, 15445
19.30–20.20 (W)	XI	11950, 9715, 6020	11950, 9715, 6020
21.30–22.20 (W)	XIX	9590, 6020, 6085	11730, 9715, 6020
Indonesian			
12.30–13.30 (D)	XX	17810, 15445, 6020	17810, 15445, 6020

DUTCH WORLD BROADCASTING SYSTEM

RADIO NEDERLAND

HILVERSUM - HOLLAND



daily broadcasts in

AFRIKAANS
ARABIC
DUTCH
ENGLISH
INDONESIAN
SPANISH

news, commentaries, actualities, feature-programmes, music - 100 K/W transmitters - 13, 16, 19, 25, 31, 49 metre bands - programme bulletins free on application.

Radio stations the world over are invited to apply to our

TRANSCRIPTION SERVICE

for free recordings of

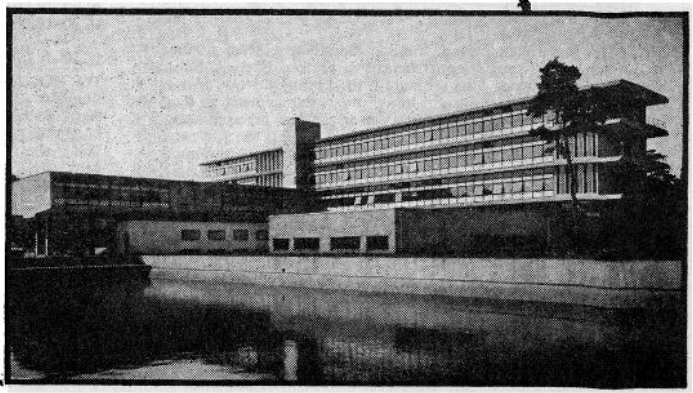
- serious and light music
- entertainment-programmes
- feature-spots, coverages
- topical talks, interviews

RELAY SERVICE

twice a week for U.S. and Latin American stations

ALL TRANSCRIPTION PROGRAMMES

are adapted to suit the requirements of the areas served.



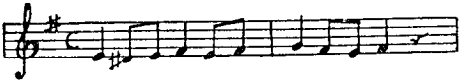
Spanish			
00.30–01.20[1])	XVI	9715, 6035	11800, 9715
02.30–03.20[1])	XXI	6035, 5985	9590, 5985
20.30–21.20 (W)	XXII	6020, 6085	(9590), 6020, 6085
23.30–00.20 (W)	XIV	9715, 6035	11800, 9715
Happy Station			
02.00–03.30 (Mo)	IV	6035, 5985	9590, 5985
06.00–07.30 (Sun)	XVII	6025, 9630	11780, 9630
10.30–12.00 (Sun)	XXIII	5980, 6020, 17810, 21480	15425, 6020, 5980
16.00–17.25 (Sun)	XXIV	6020, 11710, 15425	21480, 15445, 6020
21.00–22.30 (Sun)	XXV	6020, 6035, 9715	15445, 9715, 6020

In addition prgr's entitled **"European Review"** (retransmitted by No. & So. American St's) are broadcast as follows (Tues & Fri only): **English** (to No. Am.): 15.30–15.45, 19.15–19.30.
Spanish (to So. Am.): 15.00–15.15, 19.40–19.55, 20.05–20.20. Frequencies used are in broadcasting bands, choice after consultation of the stations relaying this prgr.

PROGRAMME SCHEDULE

NATIONAL MUSIC: The Amsterdam Concertgebouw Orchestra: In Dutch, English, Spanish: Thurs 13.25–14.25, 17.55–18.55, 21.25–22.25, 23.25–00.15, Fri 01.55–02.45. **Indonesian:** Sun 12.40–13.10.
Other prgr's of Dutch music: Afrikaans: Tues. 16.00–16.19. **English:** Mo 07.12, 14.12, 19.42, 21.42, Tues 01.42. **Indonesian:** Wed 13.15. **Spanish:** Mo 21.00, 24.00, Tues 01.00, 03.00.
NEWS, COMM.: Afrikaans: W. 15.31. **Arabic:** D. 16.02, 17.00, 18.02, 19.00. **Dutch:** 01.30, 06.00, 08.00, 13.00, 16.30, 17.00, 17.30, 20.00, 20.30, 21.00, 22.30, 23.30. **English:** W. 07.00, 14.00, 19.30, 21.30, 01.30 (exc.) Mo), **Indonesian:** D. 12.32. **Spanish:** W. 20.30, 23.30, 00.30 (exc. Mo), 02.30 (exc. Mo).
LISTENERS REQUEST PRGR.: Afrikaans: Sat 15.41. **Arabic:** Fri 17.05, 19.05. **Dutch:** Fri 02.15, 06.20, 08.25, 13.45, 18.15, 21.45, 23.45. **English:** Tues 07.12, 14.12, 19.42, 21.42, Fri 01.42. **Indonesian:** Sat 12.50, every 3rd and 5th Tues of the month 13.50. **Spanish:** Thurs 20.43, 23.43, Fri 00.43, 02.43.
MAILBAG: Afrikaans: Sat 15.41. **Arabic:** D. 16.40–18.40. **Dutch:** Fri 06.45, 08.50, Sat 02.20, 13.50, 18.20, 21.50, 23.50. **English:** Wed (fortnightly) 07.32, 14.32, 20.02, 22.02, Thurs (fortnightly) 02.02. **Spanish:** Tues (fortnightly) 21.01, Wed 00.01, 01.01, 03.01. **Dutch Language Lessons:** Tues 07.32, 14.32, 20.02, 22.02. Wed 02.02. Repeat Sat 07.27, 14.27, 19.57, 21.57, Sun 01.57. **DX-PROGRAMMES: English:** "DX Juke Box" Thurs 07.12, 14.12, 19.42, 21.42, Fri 01.42.
PRODUCTION "HAPPY STATION": The 5 "Happy Station" Sun prgrs., 4 in English and 1 in Spanish and Portuguese, bring a wide range of carefully selected music catering for all tastes. Short features of universal interest, descriptive commentaries and educational quizzes supplement the 90 min. prgrs. In addition each transmission carries an international "mailbag" with calls to all parts of the globe. 1963 marks the 35th year of the "Happy Station"s worldwide broadcasting.
The "Happy Station" prgr. **EVERY SUNDAY:** (for frequencies see operating sched.).: 06.00–07.30 Au./NZ/Pacific, 10.30–12.00 Europe & Far East, 16.00–17.30 Eu./Af./So. Asia, 21.00–22.30 So. Am./Spain & Portugal, 02.00–03.30 No. Am. (Sun night to Mo).

ANN.: Dutch: "Hier R. Nederland in Hilversum". **E.:** "This is the International Service of R. Nederland in Hilversum, Holland". **Ind.:** "Disini Hilversum Siaran Indonesia R. Nederland". **Sp.:** "Aqui R. Nederland, Hilversum, Holanda". **Arabic:** "Huna Hilversum – al idha'atu'l hulandiya bi'l-lughati'l-Arabiya". **Afrikaans:** "Dit is R. Nederland Wereldomroep in Hilversum, Holland".
GENERAL INT.-SIG.: Old Dutch folk song called: "Merk toch hoe sterck" played on carillon or celeste – **V.** by QSL-card.



PUB.: Prgr. bulletin in Dutch, Englich, Spanish, Arabic, Afrikaans. – A booklet on Sw. aerial construction in Dutch, English, Spanish, Indonesian and Arabic. Also a diagram for building a s.w. converter in Dutch, English. "Some useful hints" on s.w. reception in English and Spanish. All the pub. are sent free of charge on application – **TRANSCRIPTION SERVICE** a free sce. to foreign sts. Issues complete prgr. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

HUNGARY

L.T.: GMT+1 h – **Pr.L.:** Hungarian.
MAGYAR RADIO ES TELEVIZIO (Go.)
ADDR.: Brody Sandor-S. u. 5–7, Budapest VIII. **Cable:** Magyarrádió. **Te.:** 338. **Telex:** 6-67 – **L.P.:** Pres. & Gen. Mgr.: I. Tömpe. Vice Pres.: Dr. I. Hárs, Dr. K. Kiss. Dir. Adm.: G. Mike. Dir. Tec.: L. Hermann. Dir. Foreign Rel.: Mrs. M. Solymár, dr.

HOME SERVICE

	kc	m	kW	h of tr.
Kossuth, Budapest	539	556.5	135	W 03.30–23.30, Sun 05.00–23.30
Petöfi II, Budapest	872	344.0	30	
Petöfi I, Szolnok	1187	252.7	135	
Nyiregyháza	1340	223.8	25	
Szombathely	1340	223.8	25	
Pécs	1340	223.8	15	W 04.00–07.10, 13.00–22.15. Sun 05.30–22.15
Györ	1349	223.3	0.4	
Szolnok	1349	223.3	0.4	
Miskolc	1594	188.2	15	
Magyaróvár	1594	188.2	0.4	
Balatonszabadi	1594	188.2	15	

R. Kossuth: N., Wrp : W 03.30, 04.30, 06.00, 09.00, 11.00, 14.00, 16.00 19.00, 21.00, 23.00. Sun 05.00, 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N.: W 05.00, 07.00, 15.00, 17.00, 18.00, 20.00, 22.00. Sun 22.00.
FM: Budapest 66.62 Mc 2 kW, Pecs 68.69 Mc 2 kW: 17.00–21.00.

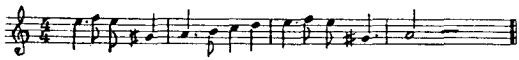
ANN.: "Kossuth Radio, Budapest – Petöfi Radio, Budapest".

FOREIGN SERVICE
STATIONS: 1250 kc=135 kW, others 15/100 kW.

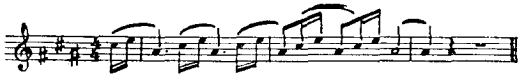
kc	m	kc	m	kc	m
1250	240.0	6236	48.08	9833	30.51
5900	50.84	7220	41.55	11895	25.22
5960	50.34	9770	30.71	11910	25.19

	4/11–2/3	3/3–4/5 1/9–5/11	5/5–31/8
TO EUROPE	**kc**	**kc**	**kc**
English:			
20.00–20.30	7220, 6236	7220, 6236	9833, 7220
22.00–22.30	7220, 6236, 5900	7220, 6236, 5900	9833, 7220, 6236
German:			
18.00–18.30	1250	1250	1250
18.30–19.00	1250, 6236	1250, 6236	1250, 6236
20.00–20.30	1250, 5900	1250, 5900	1250, 6236
Greek:			
11.45–12.00(W)	9833	9833	9833
12.00–13.00*	9833, 7220	11910, 9833, 7220	9833, 7220, 11910
14.30–15.30**	9833	9833	9833
17.00–17.30	7220, 6236, 1250	9833, 6236, 1250	9833, 7220, 6236, 1250
19.30–20.00	7220, 6236, 5900, 1250	7220, 6236, 5900, 1250	9833, 7220, 6236, 1250
Hungarian:			
14.00–16.00*	11895, 9833, 7220, 1250	11895, 9833, 7220, 1250	11895, 9833, 7220, 1250
19.00–19.30	9833, 7220, 6236, 1250	9833, 7220, 6236, 1250	9833, 7220, 6236, 1250
21.00–22.00	7220, 6236, 5900, 1250	7220, 6236, 5900, 1250	9833, 7220, 6236, 1250
15.00–16.00***	1250	1250	1250
11.00–12.00*	1250	1250	1250
Italian:			
17.30–18.00	7220, 6236, 1250	7220, 6236, 1250	7220, 6236, 1250
20.30–21.00	6236, 1250	6236, 1250	7220, 1250
13.00–13.30*	9833, 7220	11910, 9833, 7220	11910, 9833, 7220
Spanish:			
20.30–21.00	9833, 7220	9833, 7220	11910, 9833
22.30–23.00	7220, 5900	7220, 5900	9833, 7220
TO NEAR EAST			
Arabic:			
16.00–16.30	9833, 7220	11895, 9833	11895, 9833
18.00–18.30	9833, 7220, 6236	11895, 9833, 7220	11910, 9833, 7220
Turkish:			
10.00–12.00*	11910, 9833, 7220	11910, 9833, 7220	11910, 9833, 7220
16.30–17.00	9833, 7220, 6236, 1250	11895, 9833, 7220, 1250	11895, 9833, 7220, 1250
18.30–19.00	9833, 7220	9833, 7220	9833, 7220
TO NO. AMERICA			
English:			
00.00–01.00	9833, 7220, 5960	11910, 9833, 7220	11910, 9833, 9770
03.30–04.30	9833, 7220, 5960	9833, 7220, 5960	9833, 7220, 5960
Hungarian:			
01.00–01.30	9833, 7220, 5960	9833, 7220, 5960	11910, 9833, 9770
02.00–03.00	9833, 7220, 5960	9833, 7220, 5960	11910, 9833, 7220
04.30–05.00	9833, 7220, 5960	9833, 7220, 5960	9833, 7220, 5960
03.00–03.30(M)	9833, 7220, 5960	9833, 7220, 5960	9833, 7220
TO C. AMERICA			
Spanish:			
01.30–02.00	9833, 7220, 5960	9833, 7220, 5960	11910, 9833, 7220
TO SO. AMERICA			
Hungarian:			
23.30–24.00	11910, 9833, 7220	11910, 9833, 7220	11910, 9833

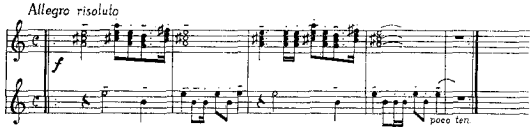
Spanish:
23.00–23.30 11910, 9833, 7220 11910, 9833, 7220 11910, 9833
* Sun only ** Sat only *** Wed only M = Musical prgr.
ANN.: E.: "This is Budapest, Hungary".
INT.-SIG.: R. Kossuth:



R. Petöfi:



Foreign Service: Old Hungarian Folksong "From the Tisza, past the Danube":



V. by QSL-card and letter – **PUB.:** Rádió és Televizió Ujság" (weekly)

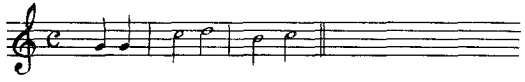
ICELAND

L.T.: GMT + 1 h – (Su. = GMT) – **Pr.L.:** Icelandic.

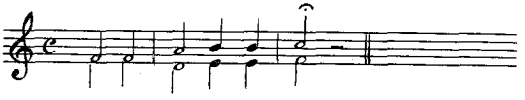
ICELAND STATE BROADCAST SERVICE – RIKISUTVARPID (Go.)
ADDR.: P.O. Box 120, Reykjavik. **Cable:** Utvarp.
L.P.: Dir. Prgr. Council: B. Groendal. Dir. Gen.: V. Th. Gislason. Dir. Adm.: S. Thordarson. Dir. Prgr.: A. Bjoernsson. Dir. Tec.: S. Bjarnason.
HOME SERVICE: Mo–Fri 09.00–11.00, 13.00–17.30, 19.00–01.00. Sat 09.00–11.00, 13.00–01.00. Sun 09.30–01.00.

STATIONS:	kc	m	kW		kc	m	kW
Reykjavik TFU	209	1435	100	Djupivogur	1484	202.2	0.02
Akureyri	737	407.1	5	Fáskrúds-fjördur	1484	202.2	0.02
Eidar	665	541.2	5	Eskilfjördur	1510	198.5	0.02
Hoefn	611	491.0	1	Reydarfjördur	1520	197.4	0.02
Breiddalsvík	1412	212.0	0.02	Stödvarfjördur	1545	194.2	0.02
Neskaupstadur	1412	212.0	0.02	Reykjavik	11780	25.47	7

Reykjavik FM: 94 Mc 0.6 kW, 98 Mc 0.06 kW.
N.: W 09.30, 13.30, 16.00, 17.00, 20.30, 23.00. Sun 10.00, 13.30, 20.30, 23.00.
FOREIGN SERVICE in Icelandic:
On 11780 kc: D 20.30–22.00. Sun also 13.00–15.00.
ANN.: "Útvarp Reykjavík" – V. by QSL-card. Rp.
INT.-SIG.: Home Service:



Foreign Sce.:

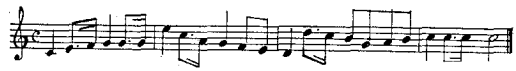


ARMED FORCES RADIO AND TELEVISION SERVICE: See USA.

IRELAND

L.T.: GMT (Su. GMT + 1 h) – **Pr.L.:** Irish, English.
RADIO ÉIREANN (Semi-State)
FI.: By state, license payments and adv. – **AD.:** 16 h per week.
ADDR.: G.P.O., Dublin. **Cable:** Broadcasting. **Te.:** 42981.
L.P.: Chairman: E. Andrews. Dir. Gen.: E. J. Roth. Head of Management: J. A. Irvine. Contr. of Prgr.: R. Farren. Chief Eng. (Sound & TV tr's): J. O'Keeffe.

STATIONS: Athlone 566 kc 530 m 100 kW – Dublin 1250 kc 240 m 5 kW – Cork 1250 kc 240 m 5 kW.
HOME SCE.: W 08.00–10.05, 12.55–15.00, 17.00–23.30. Sun 10.25–11.15, 12.30–23.30.
N.: English: 08.00(W), 09.00(W), 10.00, 13.30, 18.30, 22.15 – **Irish:** 18.01, 22.00(W) – **Wrp.:** English 08.10(W), 09.10(W), 10.25(Sun), 12.55(W), 17.55, 18.30, 22.15, 23.30 – **Irish Music:** Sat, Sun 22.30–23.00.
ANN.: "Radio Eireann" – **INT.-SIG.:** Celeste and Harp playing 4 bars of Irish Air "O Donnell Abu" – V. by letter – **PUB.:** RTV Guide.



RADIO OGLAIGH NA H-EIREANN (Military) – **ADDR.:** Collins Barracks, Baile Atha Cliath – **L.P.:** St. Mgr.: G. Newman. Dir. Tec.: D. Butler.

STATION: 17544 kc 1 kW: D 16.30–18.30 in Irish or English – **ANN.:** "Radio Oglaigh Na H-Eireann; This broadcast is beamed to the Irish troops serving with the United Nations Forces in the Congo" – V by letter Re. in E. or Irish.

ITALY

L.T.: GMT + 1 h. **Pr. L.:** Italian.

RAI – RADIOTELEVISIONE ITALIANA
(State Service granted by public act to RAI)

FI.: By license payments and adv. – **AD.:** 10% of broadc. time for radio. For TV: Nat. Prgr.: 6.7%, 2nd Prgr.: 3.9%.

ADDR.: Via del Babuino 9, Roma. **Cable:** Raidirro. **Te.:** 664.

L.P.: Pres.: Prof. Novello Papafava. Vice Pres.: Hon. Luigi Bennani. Man. Dir.: Ing. Marcello Rodino. Dir. Gen.: Dr. Ettore Bernabei. Vice Dir. Gen.: Dr. Marcello Bernardi. Gen. Secr. (Dir. For. Rel.): Dr. Gian Franco Zaffrani. Dir. Adm.: Dr. Bruno Vasari. Dir. Prgr. (Radio): Maestro Giulio Razzi. Dir. Prgr. (TV): Dr. Sergio Pugliese. Dir. Radio & TV Inf. Sce.s: Dr. Luigi Beretta. Dir. Tec. Radio: Eng. Gino Castelnuovo. Co. Dir.: Eng. Edoardo Cristofaro. Dir. Tec. TV: Ing. Gino Orsini. Co. Dir. Gen. Aff.: Dr. Gregorio Pozzillo. Dr. Aldo Passante. Chief Pers.: Dr. Marcello Severati. Dir. "Radiocorriere": Dr. Michele Serra.

HOME SCE.: No powers indicated owing to pending changes.

MEDIUM WAVES	Nat. prgr. kc	2 prgr. kc	3 prgr. kc		Nat. prgr. kc	2 prgr. kc	3 prgr. kc
Aosta 1)		1115		Siena 8)		1448	1367
Alessandria 1)		1448		Perugia 9)	1578	1448	
Biella 1)		1448		Terni 9)	1578	1448	
Cuneo 1)		1448		Ancona 10)	1578	1448	
Torino 1)	656	1448	1367	Ascoli P. 10)		1448	
Como 2)		1448		Roma 11)	1331	845	1367
Milano 2)	899	1034	1367	Aquila 12)	1578	1484	
Sondrio 2)		1448		Campob. 12)	1578	1448	
Bolzano 3)	656	1484	1594	Pescara 12)	1331	1034	
Bressanone 3)		1484	1594	Teramo		1484	
Brunico 3)		1484	1594	Avellino 13)		1484	
Merano 3)		1484	1594	Benevento 13)		1448	
Trento 3)	1331	1448	1367	Napoli 13)	656	1034	1367
Belluno 4)		1448		Salerno 13)		1448	
Cortina 4)		1448		Bari 14)	1331	1115	1367
Venezia 4)	656	1034	1367	Brindisi 14)	1578	1484	
Verona 4)	1578	1448	1367	Foggia 14)	1578	1448	
Vicenza 4)		1484		Lecce 14)	1578	1448	
Gorizia 5)	1578	1484		Taranto 14)	1578	1448	
Trieste 5)	818	1115	1594	Matera 15)	1578	1448	
Udine 5)	1331	1448		Potenza 15)	1578	1448	
Trieste A 5) (autonoma in Sloveno)	980			Catanzaro16)	1578	1448	
				Cosenza 16)	1578	1484	
Genova 6)	1331	1034	1367	Reggio C 16)	1331		
La Spezia 6)	1578	1448		Agrigento 17)	1578	1448	
Savona 6)		1484		Catania 17)	1331	1448	1367
S. Remo 6)		1034		Caltanis-setta 17)	566	1448	
Bologna 7)	1331	1115	1367	Messina 17)		1115	1367
Arezzo 8)		1484		Palermo	1331	1448	1367
Carrara 8)	1578			Cagliari 18)	1061	1448	1594
Firenze 8)	656	1448	1367	Nuoro 18)	1578	1484	
Livorno 8)	1061		1594	Sassari 18)	1578	1448	1367
Pisa 8)		1115	1594				

FM: 351 st. (Nat. prgr.), 351 st. (prgr. 2), 351 st. (prgr. 3).
1) Piemonte. 2) Lombardia. 3) Trentino Alto Adige. 4) Veneto. 5) Venezia, Giulia, Friuli. 6) Liguria. 7) Emilia, Romagna. 8) Toscana. 9) Umbria. 10) Marche. 11) Lazio. 12) Abruzzi, Molise. 13) Campania. 14) Puglia. 15) Basilicata. 16) Calabria. 17) Sicilia. 18) Sardegna.

SHORT WAVES:
Nat. Prgr.: Caltanissetta 6060 kc 49.50 m – 9515 kc 31.53 m.
2. Prgr.: Caltanissetta 7175 kc 41.81 m – **3. Prgr.:** Roma 3995 kc 75.09 m.
National Prgr.: W 05.30–13.20, 14.15–23.15. Sun 05.30–23.15.
N., Wrp.: 06.00 (W), 07.00, 12.00, 13.00, 16.00 (W), 19.30, 22.15, 23.00.
Rel.: Sun 06.45 (Evangelistic), Sun 08.30 (Mass from R. Vaticana) – **Folklore Music:** 16.40 – **L.L.:** 05.35 (Spanish: Mo, Wed, Fri; Portuguese: Tues, Thurs, Sat), 16.20 (French: Mo, Thurs; English: Tues, Fri; German: Wed, Sat).

2nd Prgr.: W 08.00–11.20, 12.00–22.00 (approx.). Sun 08.00–11.00, 12.00–13.30, 13.45–22.00 (approx.).
N., Wrp.: 08.00, 12.30, 13.30 (W), 14.30 (W), 17.30 (W), 19.00, 20.30, 22.00.

3rd Prgr.: W 16.00–23.00. Sun 15.00–23.00 – **N.:** 20.00.

3rd Network (on same frequencies as 3rd prgr.): D 07.00–07.50 (Broadcasts for Tourists in French, German, English), 09.00–13.15.

Night Programme (Notturno dall Italia) on 845, 6060, 9515 kc: 22.05–05.30. 7 h of music, parade: songs, melodies, opera music, dance music, folklore songs, symphony, operetta and jazz, with short news-bulletins in four languages (English, French, German, Italian) every h. On Sundays: "Holiday for a Continent" musical divertissement presented in Italian, English, French and German.

FOREIGN SERVICE

RADIO ROMA: 50/60/100 kW.
ADDR.: Casella Postale 320, Rome. **Te.:** 489.171.

kc	m	kc	m	kc	m	kc	m
566	530.0	7275	41.24	11805	25.41	17740	16.91
845	355.0	7290	41.15	11810	25.40	17770	16.88
1115	269.0	9515	31.53	11905	25.20	17800	16.85
5960	50.34	9575	31.33	15120	19.84	21560	13.91
6010	49.92	9630	31.15	15325	19.58		
6060	49.50	9710	30.90	15400	19.48		

EUROPEAN SERVICE "Roma calling Europe"

Albanian	kc
13.30–13.45	7290, 9575
17.45–18.00	6010, 9575
Bulgarian	
20.55–21.15	6010, 7290, 9575
Czech	
13.15–13.30	6010, 9630, 11810
18.25–18.35	5960, 7275, 9710
20.25–20.40	5960, 7275
Danish/Swedish*	
17.35–17.55	5960, 7275, 9710
English	
18.20–18.40	6010, 9575
French	
18.00–18.20	6010, 9575
German	
10.25–10.40	7290, 9575
13.30–13.45	6010, 9630, 11810
18.10–18.25	5960, 7275, 9710, for Austria
20.40–21.00	5960, 7275
Greek	
19.05–19.25	5960, 7275
Hungarian	
13.15–13.30	7290, 9575
21.35–21.55	6010, 7290, 9575
Italian	
13.55–14.05	566, 1115, 9515
15.35–15.55	6010, 7290, 11810
17.35–18.10	(Sun) 5960, 7275, 9710
Lithuanian	
19.50–20.10	5960, 7275

Polish	kc
13.00–13.15	6010, 9630, 11810
17.35–17.45	6010, 9575
20.10–20.25	5960, 7275
Portuguese	
21.35–22.00	5960, 7275
Rumanian	
13.00–13.15	7290, 9575
20.35–20.55	6010, 7290, 9575
Russian	
03.30–03.45	6010, 7275, 9575, 9630, 11810
14.05–14.20	9575, 11905
21.15–21.35	5960, 7275
Serbian	
10.10–10.25	7275, 9575
21.15–21.35	6010, 7290, 9575
Slovak	
13.45–14.00	6010, 9630, 11810
21.00–21.15	5960, 7275
Slovene	
13.45–14.00	7290, 9575
Spanish	
22.00–22.25	5960, 7275
Turkish	
19.25–19.50	5960, 7275
Ukrainian	
18.40–19.00	6010, 9575
Belgian/Esperanto/English & French**	
17.55–18.10	5960, 7275, 9710

* **Danish:** Tues, Thurs, Sat; **Swedish:** Mo, Wed, Fri.
** For Belgium (F) Sat: **Esperanto:** Tues, Wed, Fri; **English & French:** Mo, Thurs.

GENERAL OVERSEAS SERVICE AU, NZ, F. EAST

English	kc
09.00–09.40	15325, 17800, 21560
Italian	
06.50–08.55	11905, 15325, 17740 17800, 21560
20.00–20.30	9575, 9710, 11810
22.00–22.25	9575, 9710, 11810
SO.EA.ASIA & THE FAR EAST	
Chinese	
09.45–10.05	11905, 17800
English, French	
10.45–11.25	15400, 17800, 21560
Indonesian	
09.45–10.05	15325, 17770, 21560
Japanese	
10.10–10.40	11905, 17800, 21560

SOUTH AFRICA

English	
15.35–15.55	17770, 21560
Somali	
14.50–15.25	15325, 21560

SO. ASIA

Hindi / Urdu	11905, 15400,
15.15–15.30 / 14.50–15.05	17770
Bengali	
15.05–15.15	

AFRICA & NEAR EAST

Arabic	
06.30–06.45	6010, 9575, 11905, 15400, 17800
12.25–12.55	6010, 9630, 11810, 15400, 17800
14.05–14.20	566, 1115, 9515
19.05–19.55	6010, 9575, 11810
English	
09.20–09.40	9575, 11905
French	
09.00–09.20	9575, 11905
Italian	
10.45–11.25	15325, 17800
15.25–15.30	15325, 21560
16.00–17.30	9575, 11810, 15325 17770, 21560
Persian	
14.25–14.45	11905, 17770

C. & S. AMERICA

Italian	
18.40–19.00	15325, 17770, 21560
22.30–00.30	9630, 9710, 11810
01.15–03.05	9630, 9710, 11810
Portuguese	
00.30–00.50	9630, 9710, 11810
Spanish	
00.50–01.10	9630, 9710, 11810
03.05–03.25	9630, 9710, 11810

N. AMERICA

English	
00.30–00.50	6010, 9575
03.05–03.25	6010, 9575
French	
00.50–01.10	6010, 9575
Italian	
22.30–00.30	6010, 9575
01.15–03.05	6010, 9575

SPECIAL PRGR'S ITALIAN
Press Review or Dictation News:
07.50–08.55*11905, 15325, 17740 17800, 21560
14.05–14.45**17740, 17800, 21560

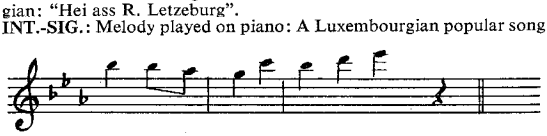
* for Australia/New Zealand and F. East.
** for No. & So. America.
ANN.: "RAI – Radiotelevisione Italiana – Stazioni del (Programma Nazionale, Secondo Programma, Terzo Programma)". Night Prgr.: "RAI – Radiotelevisione Italiana – Stazione di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc 845" – "Notturno dall' Italia".
INT.-SIG.: Bird chirping – V. by QSL-card.

LUXEMBOURG

L.T.: GMT+1 h – **Pr.L.:** Luxembourgian, French, Flemish, English, German.

RADIO LUXEMBOURG (Comm.)
Fl.: By adv. – **ADDR.:** Compagnie Luxembourgeoise de Telediffusion, Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te.:** 25881.
L.P.: Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Secr. Gen.: G. Graas.
STATIONS: R. Luxembourg I and II:
I 233 kc 1287 m 500 kW – 6090 kc 49.26 m 50 kW d.*
II 1439 – 208 – 350 – – 15350 – 19.54 – 5 – d.
FM: 92.5 Mc 15 kW. * Relay 1439 kc.
HOME SERVICE IN LUXEMBOURGIAN:
On 92.5 Mc: W 11.00–13.00, 17.30–21.00. Sun 09.00–21.00. **N., Comm.:** D 11.45, 17.40. **Nat. Music:** Sun 20.00–21.00. Sat 18.00–18.25 –
On 1439 kc: N., Comm.: D 17.40.

FOREIGN SERVICE:
On 233/15350 kc in French: D 04.40(Sun 05.59)–23.00.
N., Comm : W 05.10, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.23, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.15, 19.30 (Mo, Tues, Thurs), 19.35 (Fri), 19.40 (Wed), 19.45 (Sat), 20.00 (Thurs), 20.15 (Mo), 20.30 (Tues, Fri), 20.35 (Wed, Sat), 21.30, 22.55. Sun. 06.30, 07.00, 08.00, 09.00, 10.00, 10.55, 12.00, 18.15, 21.00, 22.55 – **Wrp.:** D 18.15 – **T.S.:** 05.29 (Sun 06.29), 12.00, 18.14.
Rel. Prgrs.: French: W 04.40–04.49.
On 1439/6090 kc in Flemish, German, English:
Flemish: W 04.45(Tues, Wed, Thurs 04.30)–12.00. Sun 04.45–13.00 – **N., Comm.:** W 06.00, 08.00, 09.00, 10.00, 11.00, 11.55. Sun 07.00, 08.00, 12.00 – **German:** D 12.00 (Sun 13.00), 17.00 – **N.:** W 17.35 – **English:** 18.00–23.00.
Rel. Prgrs. (on 1439/6090 kc): **German:** Sun 04.45–05.45, Mo 04.45–05.25, Tues 04.45–05.20, Wed 04.45–05.55, Thurs 04.45–05.40, Fri, Sat 04.45–05.20 – **Flemish:** Sun 05.45 – **Polish:** Mo 05.25–05.45 – **French:** Mo 05.45–05.55, Tues, Thurs, Sat 05.40–05.55, Fri 05.20–05.35 – **Russian:** Tues 05.20–05.40 – **Hungarian:** Sat 05.20–05.40.
INTERNATIONAL PROGRAMME: 23.00–02.00 in English, French, German on 233/1439/6090/15350 kc.
ANN.: F.: "Ici R. Luxembourg". E.: "Here R. Luxembourg". Fl.: "Hier is R. Luxembourg". G.: "Hier R. Luxembourg". Luxembourgian: "Hei ass R. Letzeburg".
INT.-SIG.: Melody played on piano: A Luxembourgian popular song.



V. by letter.

MALTA (British)

L.T.: GMT+1 h – Pr.L.: English, Maltese.

REDIFFUSION (MALTA) LTD. (Priv. Comm.)

FI.: From wired subscribers and adv. – ADDR.: Rediffusion House, St. Luke's Road, Guardamangia. Cable: Rediffusion. Te.: Central 25051 – L.P.: Gen. Mgr.: E. A. Hamilton-Hill, O.B.E. Mgr.: G. Binns, M.A. Eng. in charge: A. J. Bartolo.
D.PRGR.: Prgr. I: 06.00–23.00. Mainly B.B.C. G.O.S. with locally produced substitutions – Prgr. II: Maltese: 05.00–22.00. Local prgr's.

FORCES BROADCASTING SERVICE MALTA (Military)

ADDR.: St. Francis Ravelin, Floriana – L.P.: Prgr. officer: D. Hale. Tec. Officer: P. F. Blanchette.
STATION: 1425 kc 221.1 m 1 kW – D.PRGR. in English: 16.30(Sun 13.00)–22.00 – N.: 18.00 (BBC). T.S.: 18.00. Request Prgr.: D exc. Thurs 19.00, Thurs 18.30. Wrp.: 22.00 – ANN.: "This is the Forces Broadcasting Service, Malta" – V. by letter. Rp. – PUB.: "Listen" (weekly) free-of-charge to Service personnel only.

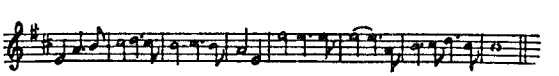
CENTRAL MEDITERRANEAN RELAY (Relays of BBC Arabic Sce.) Libya/Tunisia: On 1178 kc 254.5 m 10 kW
Arabic: 03.45–05.45, 11.00–21.00.

MONACO

L.T.: GMT+1 h – Pr.L.: French.

RADIO MONTE-CARLO (Comm.)

ADDR.: 16, Boulevard Princesse Charlotte, Monte Carlo. Cable: Radio Carlo. Te.: 30.52.52. – L.P.: Dir. Gen.: J. Gondre. Dir. Tec.: M. Auvray. Dir. Prgr.: P. Brive.
STATIONS: 1466 kc 205 m 400 kW – 6035 kc 49.71 m 30 kW – 7140 kc 42.02 m 30 kW – FM: 93.5 Mc 50 kW.
HOME SCE.: D 05.30–23.05(Sat 24.00).
N.: From 06.00 to 18.00 every h on the h exc. 12.00, 18.30, 21:15, 23.00.
Wrp.: 07.00, 08.00, 09.00, 09.25, 12.00, 13.00, 19.30, 22.15, 23.00.
FOREIGN SCE.: A 100 kW s.w.-tr. in the 49, 41, 31, 25, 19 m.b. (see Trans World Radio).
ANN.: "Ici Monte Carlo" – INT.-SIG.: "L'Hymne National Monégasque".



V. by letter – F.PL.: Increase power – PUB.: Weekly prgr.sched.

TRANS WORLD RADIO

Dedicated exclusively to broadcasting the Gospel of our Lord and Saviour, Jesus Christ and is maintained by free will contributions – Trans World Radio's prgr's are aired in conjunction with R. Monte Carlo.

ADDR.: P.O. Box 141, Monte Carlo, Monaco. Cable: Votan. Te.: 30-67-39 – L.P.: Pres.: Dr. Paul E. Freed, Ph. D. Vice Pres.: L. W. Routh. Treasurer: W. P. Haynes. Field Dir.: Dr. Ralph Freed. St. Mgr.: W. P. Mial.

STATIONS: 100 kW: 3AM5

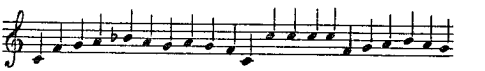
kc	m	kc	m	kc	m	kc	m
5950	50.42	7095	42.28	7245	41.41	9545	31.43
5970	50.25	7185	41.75	7260	41.32	11790	25.45

FOREIGN SERVICE:
Arabic: 05.00–05.15 – English: 06.30–07.00(Sun 09.30), 19.30–20.00 – French: 11.45–12.15 – German: 16.30–17.05, 19.00–19.25 – Hebrew: 17.40–17.55 – Italian: 12.15–12.30 – Norwegian:18.30–19.00 – Portuguese: 21.30–21.45 – Russian: 15.25–15.55 – Spanish: 13.00–13.30, 20.45–21.00 – To Eastern Europe: 17.05–17.35 & 18.00–18.30.

To Europe:
Czech: 17.00–17.15 (Thurs, Sat) on 5950 kc – Dutch: 20.30–20.45 (Mo, Fri) on 7095 kc – English: 06.30–07.00(Sun 09.30) on 7260 kc, 19.30–20.00(Sun 20.30) on 7185 kc – Estonian: 18.00–18.15 (Mo, Thurs) on 9545 kc – French: 11.45–12.15 on 7260 kc – German: 16.30–17.05 & 19.00–19.25 on 5950 kc – Hungarian: 17.25–17.40 (Tues, Wed, Sat) on 5950 kc – Italian: 12.15–12.30 (Sat, Tues) on 7260 kc – Latvian: 18.00–18.15 (Tues, Fri) on 9545 kc – Norwegian: (Norea Radio) 18.30–19.00 on 7260 kc – Polish: 18.05–18.20 (Sun) on 5950 kc – Portuguese: 21.30–21.45 on 5950 kc – Rumanian: 17.25–17.40 (Fri) on 5950 kc – Russian: 15.25–15.55 on 11790 kc – Serbo-Croat: 13.30–13.45 (Sun), 14.30–14.45 (Wed) on 7260 kc – Spanish: 20.45–22.00 on 5950 kc – Ukrainian: 15.10–15.25 on 5950 kc.

To Near East on 11790 kc:
Arabic: 05.00–05.15 (Mo, Wed), 17.05–17.20 (Mo, Thurs) – Armenian: 05.00–05.15 (Tues) – Hebrew: 17.40–17.55.

ANN.: E.: "This is Monte Carlo" or "You are listening to Monte Carlo" – "We invite our listeners in the British Isles to stay tuned for the following prgr.'s of Trans World Radio". F.: "Ici Monte Carlo. Trans World Radio vous presente un programme en langue Française". G.: "Hier ist Monte Carlo, von Trans World Radio hören Sie ein Programm in deutscher Sprache". – INT.-SIG.: Musical Box.



V. by QSL-card – F.PL.: Prgr's in Greek, Turkish. 250 kW s.w.-tr. and 50 kW m.w.-tr. on the island of Curaçao, Neth. Antilles. (System: Continental Electronics) Expected Completion 15 Nov. 1963.

NORWAY

L.T.: GMT+1 h, 15/3–20/9 GMT+2 h – Pr.L.: Norwegian.

NORSK RIKSKRINGSKASTING (Go.)

A non-comm. enterprise operated by an indep. organization.
FI.: By license payments – ADDR.: Bj. Björnsons Plass 1, Oslo. Cable: Studio, Oslo. Te.: 463820 – L.P.: Dir. Gen.: Dr. Hans Jacob Ustvedt. Dep. Dir. Tec.: E. Julsrud. Dep. Dir. Prgr.: L. Rustad. Dep. Dir. Adm.: O. Granlund. Chief Secr.: B. Kragem. Studio Controller: A. Klæbo. Prgr. Editors: H. Hegtun, Karl C. Lyche, H. Kiran, A. Feldborg. Dir. Music: K. Lange. Dir. Plays: H. Heiberg. Editor "Programbladet": E. Strand. Dir. s.w. Prgr.: G. Nygaard. Press and Inf. Officer: O. Folkestad.

Long- and Medium Waves:

	kc	m	kW
Tromsö	155	1935	10
Oslo	218	1376	200
Röros	520	577	0.25
Vigra	629	477	100
Bodö	674	445	10
Finmark	701	428	20
Bergen I	890	317	20
Kristiansand	890	337	20
Tröndelag	890	337	20
Alta	1115	269	0.25
Arendal	1115	269	0.25
Bergen II	1115	269	1
Lista	1115	269	0.25
Mo i Rana	1115	269	0.04
Namsos	1115	269	1
Notodden	1115	269	1
Bö i Vesterålen	1115	269	1
Stavanger	1313	228	100
Geilo	1466	205	0.25
Kautokeino	1466	205	1
Narvik	1466	205	1
Odda	1466	205	0.25
Porsgrunn	1466	205	0.25
Sandnessjöen	1466	205	0.25
Svalbard	1466	205	1
Brönnöysund	1484	202	0.25
Glomfjord	1484	202	0.25
Karasjok	1484	202	1
Mosjöen	1484	202	0.25
Rjukan	1484	202	0.25
Fredrikstad	1578	190	10
Nordkapp	1578	190	1.3

FM:	Mc	kW (ERP)		Mc	kW (ERP)
Börve	87.6	0.02	Melhus	92.4	15
Hovdefjell	87.8	15	Tana	92.7	30
Hemmes	88.5	15	Voss	93.3	60
Förde	88.7	15	Bremanger	93.6	15
Greipstad	88.8	11	Oslo	93.8	5.5
Sogndal	88.8	30	Gulen	94.5	15
Vega	89.1	25	Sauda	95.1	0.01
Öre	89.1	15	Lårdal	95.1	0.01
Nordfjordeid	89.4	15	Velfjord	95.8	0.3
Odda	90.0	0.01	Berlevåg	96.0	0.008
Skien*	90.2	0.025	Nordheimsund	96.0	0.04
Steigen	90.3	15	Hammerfest	96.6	30
Bjerkreim	90.6	60	Höyanger*	96.8	0.01
Steinkjer	90.9	12	Årdal	97.1	0.01
Kongsberg	91.3	60	Fauske*	97.6	0.25
Stryn	91.4	0.5	Lyngdal	97.6	12
Stord	91.8	60	Tron*	98.3	30
Varanger	91.8	15	Båtsfjord	98.9	0.02
Hadsel	92.4	15	* testtransmissions.		

Power Line distribution: Langerak 300 kc 0.6 kW. Bygland 290 kc 0.25 kW. Oppdal 290 kc 1 kW. Röldal 285 kc 1 kW. Sand 300 kc 1 kW. Sulitjelma 511 kc 0.25 kW. Tonstad 300 kc 2 kW. Åndalsnes 300 kc 0.25 kW. Åröy 300 kc 0.6 kW. Åseral 300 kc 2 kW. HOME SERVICE: W 05.30–09.00, 10.20–13.30, 14.30–22.20. Sun 06.50–15.00, 15.30–23.00.
Prgr. details: All prgr's one h. earlier during Summerperiod (15/3–15/9)
N.: 05.40(W), 07.00(W), 08.00(Sun), 12.00, 17.35, 21.10 – Wrp.: 05.40 (W), 07.00(W), 08.00(Sun), 12.00, 17.30, 18.00, 21.00 – Folklore Music: Sun 16.30 – Rel.: Sun 10.00. Thurs 17.00. W 07.15 – L.L.: German: Sun 07.00–07.15. English: Sun 07.15–07.40.
Bergen I (337 m, Voss FM, Odda 205 m, Aröy 1000 m): Mo–Fri 15.10–15.30: Information.
Bergen II Local: D 16.00–17.30(Sun 17.45).
This prgr. is broadcast by the stations: Brönnöysund, Sandnessjöen, Mosjöen, Mo i Rana, Sulitjelma, Bodö, Narvik, Glomfjord, Tromsö, Alta, Nordkapp, Finmark.

Samisk from Tromsö, Alta, Nordkapp, Finmark: Tues 13.10–13.40. Sat 13.30–14.00.
ANN.: "Dette er Norsk Rikskringkasting". **In Samisk:** "Det la Norga Rikaradio, Tromsast. Di gullabetet Samgial programa". – **INT.-SIG.:**

FOREIGN SERVICE (Nov/Feb)

Frequencies that may be used during the year. Transmitters: Fredrikstad 100 kW (1), 10 kW (2), 5 kW (one, 13 m only), 2 kW (one, 11 m only), 0.2 kW (1), Tromsö 10 kW (1).

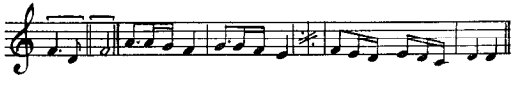
Call	kc	m	Call	kc	m	Call	kc	m
LKF	1578	190.1	LLD	9550	31.41	LLM	15175	19.77
LKJ	6130	48.94	LLG	9610	31.22	LKW	17755	16.90
LLI	6185	48.50	LLH	9645	31.10	LLN	17825	16.83
LLS	7210	41.61	LKQ	11735	25.56	LLP	21670	13.85
LLR	7240	41.44	LLK	11850	25.32	LLQ	21730	13.81
			LKV	15170	19.78	LLA	25900	11.58

Special Abbreviations: I=Europe, Africa, Mid- & So. Atlantic; II=No. & Mid Atlantic; III=Far East, Japan, N. Zcaland, Ea. Australia; IV=Europe, India, We. Australia; V=So. America, Mid- & So. Atlantic; VI=No. Atlantic, No. America (East Coast), Caribbean; VII=No. Atlantic, No. America (We. Coast), Pacific, Ea. Africa. a Home Sce. b For Norwegians abroad. c Weather at Sea (in Norwegian only). d Norway this week. A Nov 62–March 63. B March–May 63. Freq.s in fat types 100 kW.

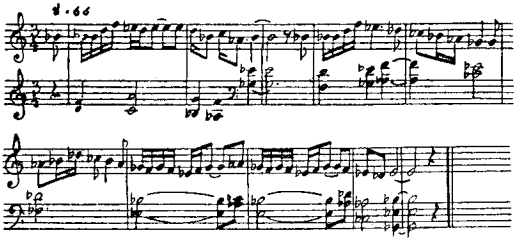
Time	Prgr.	Ar.	Per.	kc
06.00–07.30	a	I	A	6130, **15175,** 17825, 21730, 25900
07.00–09.55*	a	I	B	6130, **11850,** 15175, 17825, 21730, 25900
10.25–10.35	c	II	A	9610, 11850, **15175,** 21730, 25900
			B	11850, **15175,** 17825, 21730, 25900
11.00–12.30	b	III	A	6130, 9610, **15175,** 17825, 21730, 25900
11.00–12.30*	b+d	III	B	6130, 11850, **15175,** 17825, 21730, 25900
13.00–14.30	b	IV	A	6130, 11850, **15175,** 21730
13.00–14.30*	b+d	IV	B	6130, 15175, **17825,** 21730, 25900
16.00–17.30	b	I	A	6130, **9610,** 11850, 15175, 17825, 21730
16.00–17.30*	b+d	I	B	6130, **15175,** 17825, 21730, 25900
19.00–20.30	b	I	A	6130, **9610,** 11850
19.00–20.30*	b+d	I	B	6130, **15175,** 17825, 21730
23.00–00.30	c,b	V	A	1578, 6130, **9610,** 11850
23.00–00.30*	c,b,d	V	B	1578, 6130, **9610,** 11850
01.00–02.30	c,b	VI	A	1578, **6130,** 9610, 11850
01.00–02.30**	c,b,d	VI	B	1578, 6130, **9610,** 11850
04.00–05.30	c,b	VII	A	1578, **6130,** 9610, 11850
04.00–05.30**	c,b,d	VII	B	1578, 6130, **9610,** 11850

* Sun. ** Mo only.

N. in Norwegian at the beginning of each tr. **N. in English:** Sun 12.00, 14.00, 17.00, 20.00, 24.00. Mo 02.00, 05.00.
Tromsö Short-Wave tr. carries the Norwegian Home Service on 9550 kc during A, on 11735 kc during B.
Prgr. for Norwegians abroad: Sun: Religious Sce., Sport. L.N. – Mo: Sport N., Parliament N. – Tues: Actualities. L.N. – Wed: Request Prgr. (music). L.N. – Thurs: World N., L.N. – Fri: Missionary N., L.N. – Sat: Letter Box, L.N.
ANN.: "This is Radio Norway with its shortwave service for Norwegians abroad".
INT.-SIG.: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal.



Five minutes previous to every s.w. tr. the following signal is sent:



Message to our English-speaking audience: In our daily prgrs. for Norwegians abroad we will usually have a section of Norwegian music or music presented by Norwegian artists. This musical section, which lasts 15 to 20 minutes, is introduced in **English** as well as in **Norwegian.** On Wed and Sat you can listen to our **"Letter Box Programme",** in which we play our listener's **request records.** We often receive letters from listeners in Norway with request to play a record with a greeting to one of their relatives abroad, but we regret to be unable to comply with these requests. Every Sunday we have an additional prgr. in English, **"Norway this week",** in which we try to present Norway in different ways through music and feature prgrs. We are very grateful for comments on our transmissions. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **RADIO NORWAY,** Oslo, Norway.
PUB.: Programbladet (weekly). Prgr.schedule free on request.

TELEVISION

FI.: By license payments – **ADDR.:** See Sound Broadcasting – **L.P.:** Dir. Gen.: Dr. Hans Jacob Ustvedt. Dir. Prgr.: O. Nes. Dir. Tec.: T. Navelsaker.
STATIONS: ch E. Po. H:

STATION	ch	kW (ERP)	STATION	ch	kW (ERP)
Melhus	2	5/1	Kongsvinger	9	0.004
Kongsberg	4	100/20	Gjøvik	9	0.018
Oslo	6	100/20	Drammen	9	0.003
Haus	6	0.035	Bergen	9	140/130
Laksevåg	7	0.050	Sandefjord	10	0.002
Bokn	8	15/3	Furuset	11	0.04
Porsgrunn	8	0.002	Hamar	11	0.006
Lårdal	9	0.01	Skien	11	0.01
Larvik	9	0.002	Tønsberg	11	0.0002

D. PRGR.: Testpicture W 09.30–15.00. Prgrs.: D 18.30–20.00.

NOREA RADIO (Nordic Radio Evangelistic Association)

FI.: By gifts from listeners and friends – **ADDR.:** Grensen 19, Oslo. **Cable:** Norskluth. **Te.:** 417640 – **L.P.:** Dir. Adm. & Prgr.: M. Leine. Dir. Tec.: Å. Nevland.
D.PRGR.: Norwegian 18.30–19.00 on 7260 kc 100 kW over R. Monte Carlo – V. by QSL-card or letter.

POLAND

L.T.: GMT+1 h (Summer: GMT+2 h) – **Pr.L.:** Polish.

POLSKIE RADIO I TELEWIZJA (Go.)

FI.: By license payments – **AD.:** 7% of broadc.time.
ADDR.: Komitet do Spraw Radio i Telewizji "Polskie Radio i Telewizja" ul. Noakowskiego 20, Warsaw. **Cable:** "Polskieradio". **Te.:** 2106.
L.P.: Pres.: W. Sokorski. Vice Pres., Home Sce.: H. Werner. Vice Pres. Foreign Sce.: E. Uzdanski. Vice Pres., Engineering: K. Kozlowski. Dir. Prgr. Home Sce.: O. Stampfl. Dir. Prgr. Foreign Sce.: H. Meller. Vice Pres. for TV: A. Walatek. Dir. Adm.: A. Landau. Secr. Gen.: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec.: B. Klimaszewski. Head Intern. Relations Office: Mme. E. Przastkowa.

HOME SERVICE

	kc	m	kW		kc	m	kW
Warszawa I	227	1322	500	Bialystok	1367	219.8	30
Poznan	737	407	300	Lublin	1367	219.8	30
Warszawa II	818	367	300	Lodz	1484	202	8
Katowice	1079	278	60	Kielce	1484	202.2	1
Wroslaw	1259	238.5	50	Olsztyn	1484	202.2	1
Zielona Gora	1259	238.5	20	Krakow	1502	199.7	60
Gdansk	1304	230	30	Rzeszów	1502	199.7	30
Szcecin	1304	230	80	Opole	1594	188.2	1
				Koszalin	1594	188.2	1

FM: Warszawa III 97.6 Mc 10 kW – Katowice 89.8 Mc 3 kW – Opole 95.0 Mc 3 kW.
Prgr. I 227 kc: W 03.57–22.10(Sat 22.40). Sun 04.30–23.40.
N.: 04.00(W), 05.00, 06.00, 07.00, 08.00(Sun), 11.04, 14.00, 16.00, 19.00, 22.00 – **Folk Music:** W 11.45–12.00 – **Chopin Concert:** Wed 20.00–20.30 – **The Polish Radio Symphony Orchestra (WOSPR) Concert:** Mo 20.00–22.00 – **L.L.: English:** Mo, Thurs 17.30–17.45. **French:** Wed, Sat 17.30–17.45. **Russian:** Tues, Fri 17.30–17.45.
Prgr. II 818 kc: W 04.25–23.00(Sat 01.00). Sun 05.00–23.00.
N.: 04.30(W), 05.30, 06.30, 07.30, 11.04, 15.00(W), 16.00(Sun), 20.00, 22.50 – **Chopin Concert:** Sun 15.30–16.00 – **National Philharmonic Concerts:** Fri 18.30 – **Symphonic Concert:** Sun 11.10 – **L.L.: English:** Tues, Fri 08.45–09.00. **French:** Thurs, Sun 08.45–09.00. **Russian:** Wed, Sat 08.45–09.00.
Prgr. III 97.6 Mc: D 18.30–22.00.

FOREIGN SERVICE (Oct 61–April 62)

kc	m	kc	m	kc	m	kc	m
227	1322	6015	49.88	9525	31.50	11955	25.09
1079	278.0	6075	49.38	9540	31.45	15120	19.84
1304	230.0	7125	42.11	9675	31.01	15275	19.64
1502	199.7	7145	41.99	11800	25.42	17800	16.85
6005	49.96	7270	41.27	11840	25.34		

EUROPEAN SCE.:

Danish: kc
16.30–17.00 6075, 9540, 7125
18.30–19.00 7125, 9540
20.30–21.00 1502, 7125, 9540

English:
18.30–19.00 6075
19.30–20.00 1502, 7125, 9540
20.30–21.00 6015, 7270
21.30–22.00 6075, 9540

Finnish:
16.00–16.30 6075, 7125, 9540
18.30–19.00 6075, 7125, 9540
19.30–20.00 6075

French:
11.00–11.15 9525, 9540, 11800, 11955
16.30–17.00 7145, 9675
17.30–18.00 1502, 7145, 9675
20.00–20.30 1502, 6015, 7270
21.30–22.00 6015, 7270

German:
17.00–17.30 1502, 6015, 7270
18.30–19.00 1502, 6015, 7270
19.30–20.00 6015, 7270
21.00–21.30 6015, 7270
22.45–23.15 227 (Mo–Fri)
23.15–23.45 (Sat/Sun)

Italian:
18.00–18.30 1502, 7145, 9675
20.00–20.30 7145, 9675
21.00–21.30 6005, 7145
22.00–22.30 6005, 7145

Polish:
05.00–07.00 6075, 7125, 7270, 9525, 11800
12.30–13.30 9525, 9540, 11800, 11955
15.00–15.30 1502, 6015, 6075, 7125, 7145, 7270, 9540, 9675
16.00–16.30 6015, 7270
16.30–17.00 1502, 6015, 7270
17.00–17.30 6075, 7125, 9540
17.30–18.30 } 6015, 7270
19.00–19.30 }
20.00–20.30 7125, 9540
21.00–21.30 1502, 6075, 7125, 9540
23.15–23.45 1079, 1304

Spanish:
17.00–17.30 7145, 9675
19.00–19.30 7125, 9540
20.30–20.57 7145, 9675

Swedish:
17.30–18.00 6075, 7125, 9540
19.00–19.30 1502, 6075
22.15–22.45 227 (Mo–Fri)
22.45–23.15 227 (Sat/Sun)

Esperanto:
15.30–16.00 1502, 6015, 6075, 7125, 7145, 7270, 9540, 9675

Concerts:
16.00–16.30 1502
18.30–19.30 7145, 9675
20.00–21.00 6075
21.30–23.00 1502, 7125

OVERSEAS SERVICE TO AUSTRALIA/ N. ZEALAND

English: kc
07.30–08.00 } 11800, 15120, 17800
08.30–09.00 }

Polish:
07.00–07.30 } 11800, 15120, 17800
08.00–08.30 }

TO AFRICA

English: kc
12.00–12.30 } 7125, 11840, 15275
13.00–13.30 }
22.00–22.30 7270, 9540, 11840

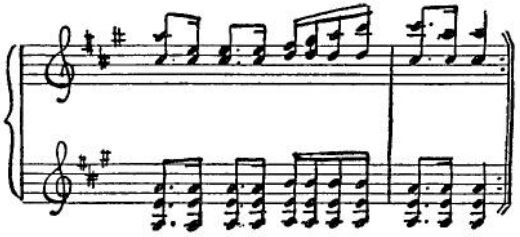
French:
12.30–13.00 } 7125, 11840, 15275
13.30–14.00 }
22.30–23.00 6005, 7145, 7270, 9540, 11840

TO SOUTH AMERICA

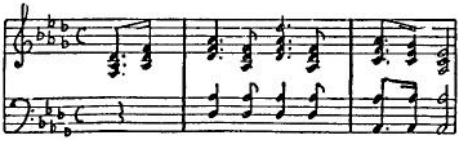
Polish: kc
23.00–24.00 } 9675, 11840, 15275
00.30–01.30 }

Spanish:
00.00–00.30 } 9675, 11840, 15275
01.30–02.00 }

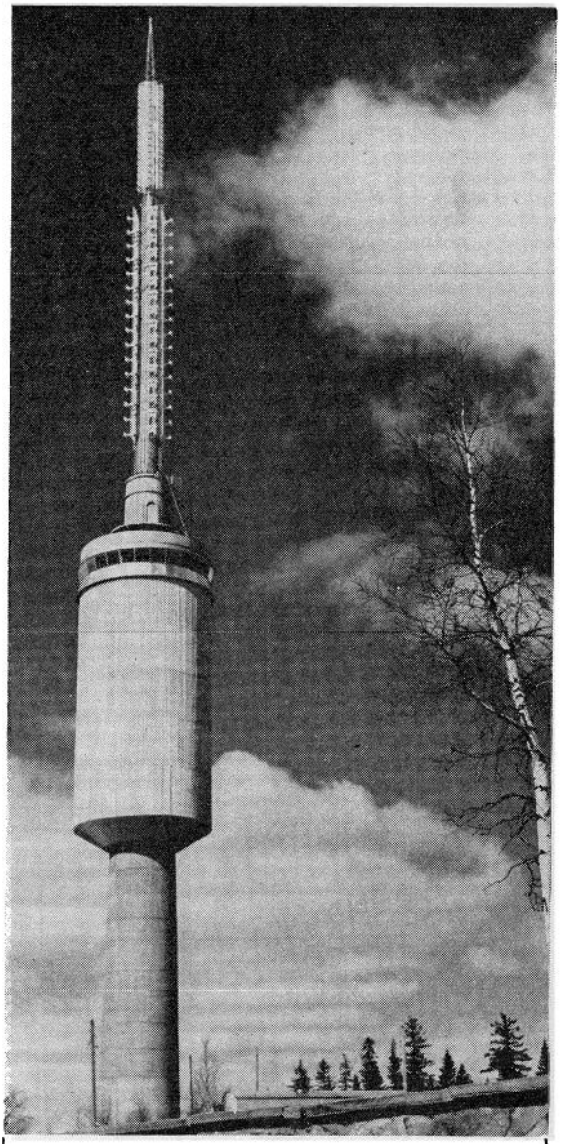
ANN.: Home Sce.: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa". – **Foreign Sce.: English:** "This is Warsaw calling" – **Polish:** "Mówi Warszawa". **French:** "Ici Varsovie etc".
INT.-SIG.: Home Sce.: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



Foreign Sce.: Revolutionary Etude by Chopin. – V. by QSL-card.



Tryvannstårnet,
650 meter above sea level.
TV- and FM radio tower
near Oslo
Readybuilt September 1962

NORWEGIAN BROADCASTING CORP.

Oslo, Norway

Every two months first-hand information on the world of broadcasting is offered to you in the

E. B. U. REVIEW

published by the European Broadcasting Union

Part A – Technical – will keep you up-to-date regarding the long-and medium-wave situation in the European Broadcasting Area and the latest developments in the television and sound broadcasting networks on metric waves,

including such questions as

wave propagation and frequency assignments in all of the broadcasting bands,

the installation and operation of transmitting stations and studio centres, of recording systems and outside-broadcast facilities, both for sound and television,

Eurovision, etc.

Part B – General and Legal – will inform you of administrative, programme and legal developments in radio and television throughout the world

such as

the activities of international organisations concerned with broadcasting in all non-technical fields,

the progress of radio and television organisations in most countries from the point of view of administration, finance and programmes,

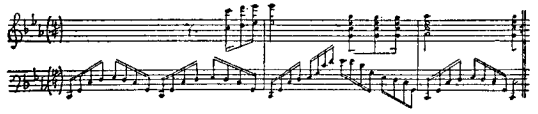
analyses of new Copyright Acts and all legislation and jurisprudence touching upon broadcasting.

ANNUAL SUBSCRIPTION:

Part A (six numbers): price 150 Belgian francs. Publishers: E. B. U. Technical Centre 32, Avenue Albert Lancaster, Bruxelles (Belgium).

Part B (six numbers): price 15 Swiss francs. Publishers: E. B. U. Administrative Office, 1, rue de Varembé Geneva (Switzerland).

A combined subscription to Parts A and B (twelve numbers) may be ordered either from Brussels or from Geneva (price 300 Belgian francs or 27 Swiss francs).



V. by QSL-card and letter. Re. to Polskie Radio. Al Niepodleglosci 77/85, Warsaw – PUB.: "Radio i Telewizja" (weekly).

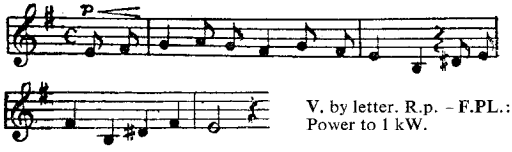
POLISH PATHFINDERS STATION

(Operated by the Polish Pathfinders Union) – **ADDR.:** Konopnickiej 6, Warszawa. Te.: 21-84-54 – **L.P.:** Dir. Gen.: K. Soczek. Dir. Prgr.: L. Tyminski. Dir. Tec.: J. Sieluzycki.

STATIONS: 6850 kc 43.80 m 0.35 kW – 7315 kc 41.01 m 0.35 kW

HOME SCE. in Polish: 10.00–17.00.

ANN.: "Tu Rozglosnia Harcerska" ("Here is a Polish Pathfinders Union Radiostation") – **INT.-SIG.:**



V. by letter. R.p. – **F.PL.:** Power to 1 kW.

PORTUGAL

L.T.: GMT (GMT+1 h. from 1st Sun. in April to 1st Sun. in October). **Pr.L.:** Portuguese.

EMISSORA NACIONAL DE RADIODIFUSAO (Go.)

ADDR.: Rua do Quelhas 2, Lisboa. – **Cable:** "Emissora-Lisboa". – **Te.:** 660181 PBX – Emissor Regional do Norte: Rua Candido dos Reis, Porto – Emissor Regional de Coimbra, Faro, Guarda – Emissor Regional dos Açores: Ponta Delgada, Açores. – **L.P.:** Dir. Gen.: Dr. J. M. Ferreira. Dir. Tec.: Eng. M. Bivar. Dir. Adm.: Dr. C. Rogeiro. Dir. Prgr.: Eng. J. da Silva Dias, Foreign Sce.: T. Alcaide.

HOME SERVICE

Stations: System: Brown Boveri, RCA, GE, Collins.

Medium Waves:	**kc**	**m**	**kW**	**h. of tr.**
Lisboa I	665	451.1	135	07.00–24.00 (Sat. 01.00)
Lisboa II	755	397.3	135	12.00–15.00, 19.00–01.00(a)
Norte I	719	417	25	as Lisboa I
Norte II	1061	283	25	as Lisboa II
Porto	1367	219	10	as Lisboa I
Coimbra	1448	207	1	as Lisboa I
Faro	557	539	1	as Lisboa I
Guarda	557	539	1	13.00–15.10(b), 18.00–24.00
Covilha	1562	192.1	1	
Viseu	1358	220.9	1	
Portalegre	1484	202.2	0.1	18.00–24.00(c)
Elvas	1358	220.9	0.1	
Short Waves:				
Atlantico (Lisboa)	11875	25.26	10	09.00–18.00
	6025	49.79	10	20.00–24.00 (Sat. 01.00)
Açores Regional (Ponta Delgada)	4865	61.66	1	14.00–15.00, 20.00–24.00

FM: (System: GE, Philips)

Lisboa II 94.30 Mc 12 kW Lisboa I – Porto I 96.70 Mc 22 kW Norte I – Porto II 92.50 Mc 22 kW Norte II.

(a) Sun. 13.00–01.00. (b) Sat. 13.00–01.00, Sun. 11.00–24.00. (c) Sat. 18.00–01.00.

N.: Lisboa I: 07.15, 08.15, 13.00, 18.00, 21.00, 23.45. Lisboa II: 19.50. Porto II, Coimbra, Guarda: 20.30.

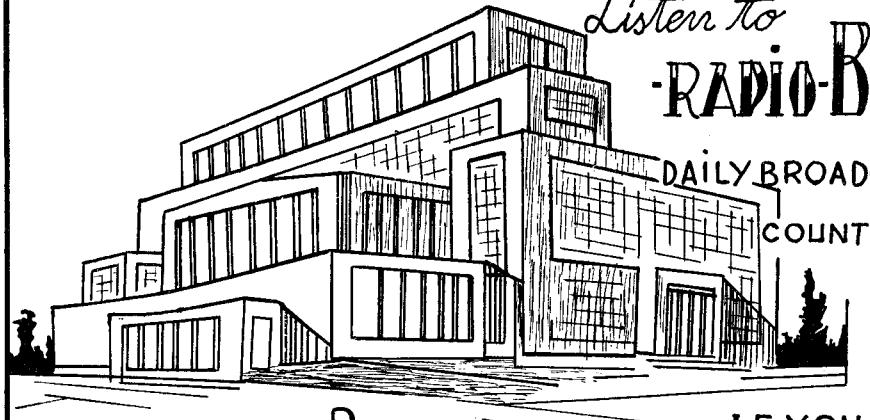
Special Broadcasts: "The Voice of the Occident": 22.00–24.00 on 755 kc (135 kW) and 1061 kc (50 kW). – **French:** 22.00–22.45 (N. 22.00). – **English:** 22.45–23.30. – **Spanish:** 23.30–24.00.

ANN.: "Emissora Nacional a transmitir com... (regional tr.)". **E.:** "The Voice of the West". **F.:** "La Voix de l'Occident". **Sp.:** "La Voz de Occidente". – V. by QSL-card.

OVERSEAS SERVICE

Short Waves: All stations Lisboa exc. those marked with * (Ponta Delgada). All stations directional exc. 123, 75 and 61 m.b. All stations 100 kW exc. 2422 kc (1), 75 m.b. (10), 61 m.b. (1). Call: CSA––.

Call	**kc**	**m**	**Call**	**kc**	**m**	**Call**	**kc**	**m**
97	4865*	61.66	58	11875	25.26	64	15125	19.83
52	6025	49.79	30	11915	25.18	42	15380	19.50
29	6185	48.50	71	11925	25.16	209	17835	16.82
55	7130	42.07	72	11930	25.15	45	17880	16.78
24	9670	31.02	32	11995	25.01	66	17895	16.76
25	9680	30.99	–	12080	24.82	67	21495	13.96
27	9740	30.80	75	15050	19.93	49	21700	13.83
31	11840	25.34	39	15100	19.87			



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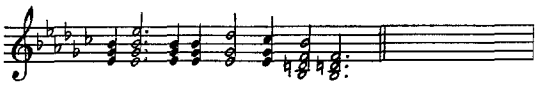
Remark: Powers indicated are the powers at carrier level.
I=Timor, II=Macau, III=India/Pakistan/Persian Gulf, IV=Goa (Portuguese India), V=So. & So. East Africa, We. Africa, Europe, VI=S. Tomé/Angola/Mozambique, VII=Guinea/Cape Verde/Brazil, VIII=No. Atlantic/Portuguese Fishing Fleet, IX=Açores, Madeira, X=No. America.

H. of tr.	L.	Area	Oct./April	April/June
09.00–13.00	P	I	17895, 21485	17895, 21495
09.00–13.15	P	II	11915, 15125	11915, 15380
13.15–14.00	E	III	15125, 17895	11915, 15380, 17895
14.00–14.45	*	VI	15125, 17895	11915, 15380, 17895
14.45–17,15	P	IV	15125, 17895	11915, 15380, 17895
18.15–19.30	E	V	7130, 9680, 11915, 15125	9680, 11915, 15125
19.30–20.00	F	V	7130, 9680, 11915, 15125	9680, 11915, 15125
09.00–13.15[1])	P	VI	15125, 17880, 21700	15125, 17880, 21700
17.15–23.40[1])	P	VI	7130, 9680, 11915, 15125	9680, 11915, 15125
14.00–17.00	P	VII	15380, 17880, 21495	17895, 21495
19.30–02.00	P	VII	9740, 11840, 15380	9740, 11840, 15380
22.45–24.00	P	VIII	6185	6185, 9680
09.00–18.00	P	IX	11875	11875
20.00–24.00[2])	P	IX	6025	6025
00.00–02.00	P	X	6025, 6185	6025, 6185
02.00–02.30	E	X	6025, 6185	6025, 6185
02.30–04.00	P	X	6025, 6185	6025, 6185
04.00–04.30	E	X	6025, 6185	6025, 6185

* Konkani. [1]) Sun. 09.00–23.40. [2]) Sat. 20.00–01.00.

N.: Portuguese: 00.15, 09.30, 10.30, 11.30, 12.30, 15.00, 16.30, 18.10, 21.30, 22.15. **English:** 13.45, 18.30.
ANN.: P.: "Aqui Lisboa, Serviço Ultramarinò da Emissora Nacional" or "Lisboa, estudios da Emissora Nacional". **E.:** "This is Lisboa Calling". – **INT.-SIG.:** T.-S. and National Anthem. – **V.** by QSL-card.



PUB.: "Aqui Lisboa" (quarterly), "Radio e Televisao" weekly, English Prgr.sched. (monthly).

RADIO UNIVERSIDADE (Go. – Ministry of National Education)
ADDR.: R. D. Estefânia 14, Lisboa 1. – **Te.:** 41884. – **L.P.:** Dir.: Dr. M. Moreira da Silva. Dir. Tec.: Eng. J. M. Dias.
HOME SERVICE: Cultural and informative prgrs. mainly: W. 18.00–18.55. Sun. 11.00–12.55 on 755 kc (Lisboa II).
ANN.: "Rádio Universidade, estúdios do Centro Universitário de Lisboa da Mocidade Portuguesa, a transmitir por intermédio da Estação Lisboa 2 da Emissora Nacional". – **INT.-SIG.:** Opens with "Gaudeamus Igitur" and closes with the "Marcha da Mocidade Portuguesa". – **V.** by QSL-card. – **F.PL.:** FM tr's in Lisboa, Coimbra, Porto. – **PUB.:** monthly bulletin free of charge.

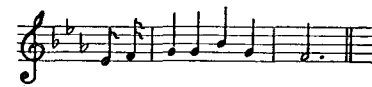
RADIO RENASCENCA (Rel. Catholic)
ADDR.: Emissora Catolica Portuguesa, Rua Capelo 5, 2°, Lisboa – **L.P.:** Dir.: M. Lopez da Cruz.
STATIONS: Lisboa CSB3 1286 kc 233 m 2 kW – CSB52 6155 kc 48.74 m 3 kW – Porto CSB30 1169 kc 256 m 10 kW.
HOME SCE.: 07.00–02.00 – **N.:** 09.25, 12.45, 18.20, 20.30, 01.50.
ANN.: "Radio Renascenca-Emissora Catolica Portuguesa" – **INT.-SIG.:** Gong. Prgr.s open with a religious choir – **V.** by QSL-card.

RADIO CLUBE PORTUGUÉS (Comm. – Sociedade Anomina Cooperative de Responsabilidade Lda.)
AD.: 15% of broadc. time – **ADDR.: Central Office:** Rua Sampaio e Pina 26, Lisboa. **Cable:** Radioclube. **Te.:** 68 20 71. **Telex:** 596. – **ADDR.: No. Branch:** Delegãçao do Norte, Rua de Ceuta 53, Porto. **Te.:** 2 38 63. **Telex:** 0742 – **L.P.:** Gen. Mgr.: A. L. Basto. Dir. Tec.: M. Menezes. Dir. Prgr.: A. Jorge. Comm. Dir.: C. R. Pereira da Cunha. No. Branch: H. Schreck.

STATIONS		kc	m	kW	h of tr.
Miramar	CSB9	782	383.6	100	10.30–01.30 (Sun 08.30–01.30)
Parede	CSB2	1034	290.1	25	06.55–03.00
Parede	CSB51	6080	49.34	10	06.55–03.00

FM: Lisboa CSB55 97.4 Mc 3 kW: as CSB2 – Porto CSB29 97.7 Mc 1 kW: as CSB9.

N.: 06.55, 08.45, 12.05, 17.45, 19.45, 23.45, 01.45, 02.55.
ANN.: Parede: "Rádio Clube Português a transmitir com as suas estações de onda média e curta de Parede e modulação de frequencia de Lisboa". Miramar: "Radio Clube Português a transmitir com as suas estações de onda média de Parede e modulação de frequencia do Porto – **INT.-SIG.:** Gong – **V.** by QSL-card – **F.PL.:** FM st.'s.



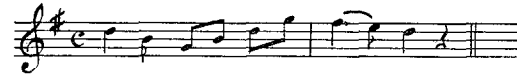
EMISSORES ASSOCIADOS DE LISBOA (Comm.)
FI.: Private (4 partners). – **AD.:** 15% of broadc. time. – **ADDR.:** Rua de Campolide 19, 6°D°, Lisboa 1. – **Te.:** 683450. – **Studios:** Clube Radiofonico Portugal, Lisboa 1. R. Graca, Lisboa 2. R. Peninsular, Lisboa 1. R. Voz de Lisboa. – **L.P.:** St. Dir.: Dr. F. Laranjeira. Dir. Tec.: C. Barradas da Silva.
STATIONS: 1594 kc 188 m 10 kW – FM: 99.4 Mc 1 kW.
HOME SCE.: W. 07.00–02.00. Sun. 00.00–24.00.
N.: 13.00, 21.00. – **Wrp.:** 13.15, 21.15.
ANN.: "CSB4, Estação de Emissores Associados de Lisboa". – **INT.-SIG.:** String chords (Guitar). – **V.** by QSL-card.
EMISSORES DO NORTE REUNIDOS (Comm.)
ADDR.: R. D. Joao IV, 960, Porto – **L.P.:** Dir.: A. Rodriguez.
STATION: CSB5 1578 kc 190.7 m 10 kW
HOME SCE.: 07.00–02.00 – **N.:** 23.50.
RADIO RIBATEJO (Comm.)
FI.: By adv. – **ADDR.:** Av. D. Rodrigo da Cunha, 9, Lisboa. **Te.:** 720070 – **L.P.:** Dir. Gen.: J. Varela Santos. Dir. Tec.: A. V. Santos.
STATION: Santarem 1322 kc 226.9 m 0.4 kW
HOME SCE.: 10.00–14.00, 18.00–20.00 – **N.:** 13.45.
INT.-SIG.: Gong – **V.** by QSL-card. Re. P., Sp., F., E.

RUMANIA

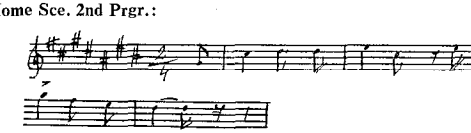
L.T.: GMT+2 h – **Pr.L.:** Rumanian.
RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)
AD.: Allowed in special places. 35 mins per day – **ADDR.:** P.O.B. 111, Bucuresti. **Cable:** Radioteleviziunea. **Te.:** 13.46.10. **Telex:** 251 – **L.P.:** Pres.: Ion Pas. Vice-Pres.: S. Brucan, C. Prisnea, G. Ionescu, I. Topor. Head For. Rel.: D. Natu.
STATIONS:

Name	kc	m	kW	Name	kc	m	kW
Brasov	155 1935		150	Bacau	1052	285.3	20
Bucuresti	557	538.6		Cluij	1151	260.9	50
Timisoara II	557	538.6	1	Constanza	1315	228.0	2
	602	498		Baneasa	1428	210.5	5
Timisoara I	755	397.3	50	Craiova	1457	205.9	20
Bucuresti I	854	351.3	150	Brasov	1484	202.2	1
Miercurea	908	330.0	5				

FM: 70.4 Mc, 72.08 Mc
HOME SERVICES
1st Prgr.: W 03.00–22.00 on 155/1315/1430 kc, FM 70.4 Mc; 03.00–06.30 on 1052/1457 kc; 03.00–10.00 on 854 kc; 03.00–04.00, 04.30–05.30, 05.35–13.00 on 755 kc; 05.00–05.30, 05.45–06.30 on 908/1151/1484 kc; 10.00–22.00 on 557/602 kc. Sun 04.00–22.00 on 155/557/602/1315/1430 kc, FM 70.4 Mc (also on 854 kc, FM 72.08 Mc from 05.00); 05.00–08.00 on 1052 kc; 06.00–07.00 on 755 kc; 06.30–07.00 on 908/1151/1484 kc; 07.00–08.00 on 1457 kc..
N.: W 03.00, 04.00, 05.00, 09.00, 11.00, 15.00, 18.00, 20.00, 21.10. Sun 11.00, 17.30, 20.00, 21.50 – **Wrp.:** 03.00 (W), 15.00 (W), 20.00.
2nd Prgr.: W 10.00–22.00 on 854 kc, FM 70.08 Mc; 10.00–12.30, 17.30–22.00 on 908/1151/1484 kc; 10.00–15.30, 17.30–22.00 on 1052/1457 kc; 14.00–14.30 on 755 kc. Sun 07.30–14.30, 15.15–17.00 on 755 kc; 08.30–22.00 on 1052/1457 kc; 08.30–14.30, 15.15–22.00 on 908/1151/1484 kc. On Sat close down is 23.00.
N.: W 10.00, 12.00, 14.00, 16.00, 19.00, 21.00. Sun 05.50, 12.00, 16.00, 18.00, 21.00 – **Wrp.:** 12.00 (Sun), 14.00 (W).
3rd Prgr.: on 755/908/1151/1484 kc: W 05.30–05.45, 13.00–13.30 (on 755 kc to 14.00), 14.30–15.00. Sun 07.00–07.30, 14.30–15.15.
ANN.: Home Sce.: 1st Prgr.: Opening: "Aici Bucuresti, dragi ascultatori, buna dimineata. Transmitem Programul nostru pe statiile de radio cu lungimile de unda de...". 2nd Prgr.: "Aici Bucuresti transmitem Programul II pe statiile de radio cu lungimile de unda de...". Close down: 1st, 2nd Prgr.: "Aici Bucuresti, dam ora exacta. Emisiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimile de unda de... Dragi ascultatori, noape buna"
INT.-SIG.: Home Sce. 1st Prgr.:



Home Sce. 2nd Prgr.:



FOREIGN SERVICE
Stations: 100 KW.

kc	m	kc	m
5990	50.08	7225	41.52
6190	48.47	9510	31.55
7195	41.70	9570	31.35

FOR EUROPE

English:

19.30–20.00	6190/7195/9510
21.00–21.30	5990/7195
22.30–23.00	5990/7195/155

French:

11.30–12.00	15250
18.30–19.00	6190/7195/9510
20.30–21.00	5990/7195
22.00–22.30	6190/9510

German:

19.00–19.30	5990
21.00–22.00	755
22.00–22.30	5990/7195/155

Italian:

17.30–18.00	6190/9510
18.30–19.00	5990
19.30–20.00	755
22.00–22.30	755

Spanish:

20.30–21.00	6190/9510
21.30–22.00	5990/7195

Portuguese:

20.00–20.30	5990/7195

Serbian:

17.00–17.30	755
19.00–19.30	755

Greek:

17.00–17.30	5990/6190/7195/9510
18.00–18.30	6190/9510/755
20.30–21.00	755
21.00–21.30	6190/9510

Rumanian:

21.30–22.00	6190/9510
22.30–23.00	6190/9510/755

FOR EAST

English:

15.00–15.30	15250
19.00–19.30	6190/7195/9510

kc	m	kc	m
9590	31.28	15250	19.67
11810	25.40	15380	19.51

Persian:

15.30–16.00	6190/7195/9510/9570
18.00–18.30	7195/9570

Turkish:

16.00–16.30	5990/6190/7195/7225/9510
17.30–18.00	755

Arabic:

16.30–17.00	5990/6190/7195/7225/9510
17.30–18.00	7195

FOR AFRICA

English:

15.00–15.30	11810/15380

French:

11.30–12.00	11810/15380
19.30–20.00	5990

FOR USA

English:

01.30–02.00	6190/7195/7225/9510/9590/15380
03.00–03.30 / 04.30–05.00	6190/7195/7225/9510/9570/9590/15380

Jewish:

02.30–03.00	6190/7195/7225/9510/9590/15380

Rumanian:

23.15–24.00	6190/7195/9510
03.30–04.00	6190/7195/7225/9510/9570/9590

FOR SO. AMERICA

Portuguese:

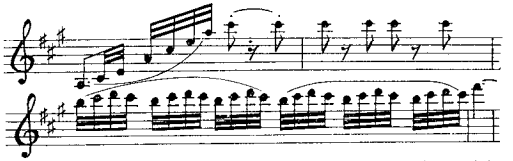
00.00–00.30	6190/7195/7225/9510/9590/11810

Spanish:

00.30–01.30	6190/7195/7225/9510/9590/11810
04.00–04.30	6190/7195/7225/9510/9570/9590/11810

ANN.: E: For No. Am.: "This is Bucarest calling North America in the ... meter bands, that is ... kc, with today's first (second, third) broadcast in English". For Eu.: "This is Bucarest calling, in the ... meter bands, that is ... kc, with today's first (second, third) broadcast in English". For N. East: "This is Bucarest calling the Near and Middle East in the ... meter bands, that is ... kc". For Asia: "This is Bucarest calling Asia in the ... meter bands, that is ... kc". For Af.: "This is Bucarest calling Africa in the .. meter bands, that is ... kc" – F: "Ici Bucarest. C'est Bucarest qui vous parle sur... Bonjour cheres auditrices, bonjour chers auditeurs! Veuillez écouter notre première émission en langue française de la journée (I-ère emission)". "Ici Bucarest. C'est Bucarest qui vous parle sur ... Veuillez écouter cette émission en langue française, au cours de laquelle nous diffuserons...". "En espérant que cette émission vpus est bien parvenue, nous vous disons: Au revoir chères auditrices, au revoir chers auditeurs" – I: "Parla Bucarest. E' Bucarest che vi parla nella sua prima (seconda, terza, quarta) trasmissione della giornata, su onde corte (medie) di metri... Amci ascoltatori, buona sera". "Qui è radio Bucarest. La nostra prima (seconda, terza, quarta) trasmissione è terminata. A risentirci! Gentili signore e signori, buona notte" – Sp: "Habla Bucarest. Muy buenas noches, estimados oyentes. Comienza nuestra primera (tercera) emision en langua española por campos de onda de... metros" – G: "Hier ist der Rumänische Rund- und Fernsehfunk mit der Sendung in deutscher Sprache. Sie hören uns auf Kurzwelle... gleich... kHz... und auf Mittelwelle...". "Liebe Hörerinnen und Hörer, Radio Bucarest wünscht Ihnen Gute Nacht".

INT.-SIG.: Foreign Service:



V. by QSL-card or letter – **PUB.:** "Programul de Radio si Televiziune" (weekly) free upon request.

SPAIN

L.T.: GMT+1 h. – **Pr. L.:** Spanish.

RADIO NACIONAL DE ESPAÑA (Go.)

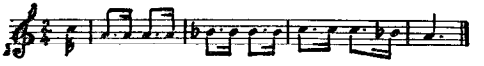
ADDR.: General Yague 1, Madrid. – **Te.:** 36 08 27. – **Cable:**
L.P.: Dir. Gen.: D. Rogue Pro Alonso. Dir. Prgr.: D. D. Porres Gil. Dir. Adm.: D. A. Utrilla. Dir. Tec.: D. J. Sanchez Cordobes. Dir. Pub. Rel.: D. M. Estevez.

HOME SERVICE

STATIONS	kc	m	kW	H. of tr.
Madrid	584	513.7	200	08.00–24.00
Madrid (Arganda)	684	438.5	100	04.00–23.30
Sevilla	647	463.6	5	07.00–24.00
La Coruña	971	309.0	20	12.00–15.00, 18.30–24.00
Barcelona	737	407.1	20	08.00–24.00
Valencia	773	388.1	20	07.00–24.00
Huelva	836	359.0	2	12.00–15.00, 17.00–23.00
Malaga	1005	299.0	6	12.00–24.00
Cuenca	1178	245.7	2	11.00–24.00
Malaga	6175	48.58	2	12.00–24.00

FM: 93 Mc 3 kW (Madrid). – 98 Mc 1 kW (Barcelona).
Madrid: Morning prgr.: 04.00–07.00 on 684 kc. – **Nat. Prgr.:** 07.00–20.30 on 684 kc 08.00–24.00 on 584 kc. – **3rd Prgr.:** 20.30–24.00 on 684 kc. – **N.** (rel. by all st's): 13.30, 18.30, 21.00, 23.00.
ANN.: "Transmite Radio Nacional de España desde sus estudios en Madrid".
INT.-SIG.: Sintonia para Servicio:

Señal de pausa:



FOREIGN SERVICE

Madrid-Arganda:

kc	m	kW	kc	m	kW	kc	m	kW
5995	50.04	40	9360	32.05	50/100	11815	25.39	100
6130	48.94	100	9370	32.01	100	15420	19.45	100
7105	42.22	100						

EUROPEAN AND OVERSEAS SERVICE
For details: See advertisement page 105.
ANN.: E.: "This is the voice of Spain broadcasting from the Spanish National Radio in Madrid".
INT.-SIG.: Gong and the following tune:

V. by QSL-card or letter. – **PUB.:** Teleradio (weekly).

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)
(Broadcasting System of the Phalanx)
The Red de Emisoras del Movimiento belong to the National Delegation of Press, Propaganda and Radio.
FI.: by own resources. – **AD.:** 10 min, per h. – **ADDR.:** Ayala, no. 15, Madrid 1. – **Te.:** 236.72.05. – **L.P.:** Dir.: A. Arias. Adm. M. Sagrera. Dir. Tec.: M. Vázquez. Coordination: J. Jiménez. Prgr.: J. León.

STATIONS Call EFE.:	kc	m	kW	H. of tr.
1. La Voz de Valladolid	1385	217	1	10.00–23.30
2. Radio Teruel	1480	203	2	10.00–13.30, 18.00–22.00
4. La Voz de Palencia	1358	220.9	0.8	10.30–22.30
5. La Voz de León	1250	240	0.8	08.00–00.00
6. La Voz de Extremadura	1079	278.3	1	12.00–15.00, 18.00–23.00
7. Radio Denia	1403	213	0.7	11.30–15.00, 18.00–22.00
8. La Voz de Alicante	1358	220.9	1.5	08.30–23.30
9. La Voz del Panadés	1079	278	0.2	12.00–14.00, 19.00–22.00
10. La Voz de Alava	1385	216.6	0.3	09.00–15.00, 17.00–23.00
11. Radio Utiel	1358	220.9	0.09	11.30–15.00, 19.30–23.00
12. Radio Monóvar	1385	216.6	0.2	10.00–16.00, 18.00–23.00
13. La Voz de Sagunto	1385	216.6	0.8	10.00–15.00, 18.00–23.00
14. La Voz de Madrid	1223	245.3	20	08.00–00.00
15. La Voz del Ferrol	1358	220.9	0.7	11.00–16.00, 18.00–23.00
17. La Voz de Levante	1079	278	5	07.00–00.00
18. La Voz de la Ribera Valenciana	1358	220.9	0.5	08.00–15.00, 18.00–23.00
19. La Voz de Castellón	1358	220.9	0.8	10.00–23.00
20. Radio Ripoll	1480	202.7	0.07	12.00–14.00, 20.00–22.00
21. Radio Cazorla	1120	267	0.3	10.00–21.30
22. La Voz del Principado de – Asturias	1079	278	5	09.00–23.00

STATIONS Call EFE.:	kc	m	kW	H. of tr.
23. La Voz de Guipúzcoa	1385	216.6	5	08.00–23.30
24. La Voz de Orihuela	1079	278	0.3	10.00–15.00, 17.00–23.00
25. La Voz de Cantabria	1358	220.9	0.8	09.00–00.00
26. Radio Luarca	1358	220.9	0.4	10.30–15.30, 18.30–21.15
27. Radio Marcsma	1480	203	0.3	11.00–16.00, 18.00–22.30
28. Radio Tortosa	1607	187	0.9	08.30–22.30
29. Radio Tudela	1480	202.7	2	10.00–14.00, 18.00–23.00
31. La Voz de Vigo	1079	278	5	07.00–00.00
32. Radio Gredos	1480	202.7	20	07.00–00.00
33. La Voz del Mediterráneo	1570	191.1	5	09.00–23.30
34. Radio Atlántico	1480	203.4	2	07.00–23.00
35. La Voz de Urgel y Segarra	1480	203.4	0.37	10.00–22.30
38. Radio Badajoz	1390	215.8	5	07.00–10.30, 12.00–16.00 18.00–23.30
39. Radio Berga	1385	216.6	0.45	11.00–15.00, 18.00–22.00
40. La Voz de la Costa Brava	1250	240	0.25	10.00–15.00, 19.00–23.00
41. Radio Olot	1250	240	0.63	11.00–15.00, 18.00–22.00
42. Radio Sueca	1358	220.9	0.25	11.00–16.00, 18.30–23.00
43. La Voz de Requena	1480	202.7	0.35	12.00–15.00, 20.00–23.00
44. Radio Picasent	1385	216.6	0.4	11.00–15.00, 17.00–23.00
45. La Voz de Granada	1250	240	2	07.00–00.30
47. Radio Cullera	1385	216.6	0.2	12.00–15.00, 19.00–23.00
49. Radio Chelva	1385	216.6	0.1	12.00–14.00, 20.00–22.00
50. La Voz de Cataluña	1079	278	5	07.00–00.00
51. Radio Mora de Ebro	1385	216.6	0.04	11.00–15.00, 19.00–23.00
52. Radio Vendrell	1385	216.6	0.06	11.30–14.30, 19.00–22.30
53. Radio Roda de Ter	1480	202.7	0.04	12.00–14.00, 19.00–21.00
54. Radio Cardona	1480	202.7	0.07	18.00–21.00
55. La Voz de Ausona	1079	278	0.7	11.00–23.00
56. Radio Blanes	1079	278	0.5	11.00–15.00, 19.00–22.00
57. La Voz de Navarra	1079	278	5	09.00–16.00, 19.00–23.00
59. Radio Manises	1480	202.7	0.5	09.00–23.00
61. Radio Adra	1079	278	0.1	12.30–16.00, 19.00–22.00
62. La Voz de Burriana	1480	202.7	0.4	10.00–23.00

INT.-SIG.: Xylophone. – V. by letter. Rp. –

F.PL.: St. at Cordoba (5 kW). – PUB.: Bulletin for local listeners.

CADENA AZUL DE RADIODIFUSION

(Delegación Nacional de Juventudes)

Organization: For the educational work of Radio in Spain and for training of people engaged with Radio.

ADDR.: Reina 33, Madrid 4. – Cable: Cadenazul. – Te.: 231-24-02.

L.P.: Dir. Gen.: J. Suaréz A. Dir. Tec.: M. A. Martinez B.

STATIONS: Call: EFJ––. Name: R. Juventud de––.

Call Name	kc	m	kW	h. of tr.
1. España	1079	278.0	2	07.00–24.00
2. Soria	1106	271.2	2	10.00–24.00
3. Martorell	1187	252.7	0.1	13.00–16.00, 20.00–23.00
4. Igualada	1187	252.7	0.1	13.00–16.00, 20.00–23.00
5. Cadiz	1187	252.7	2	10.00–24.00
6. Almansa	1187	252.7	0.1	13.00–16.00, 20.00–23.00
7. Plasencia	1187	252.7	0.8	13.00–16.00, 20.00–23.00
8. Ribadavia	1187	252.7	0.4	13.00–16.00, 20.00–23.00
9. Guadalajara	1250	240.0	0.8	13.00–16.00, 20.00–23.00
10. Algemesí	1106	271.2	0.8	13.00–16.00, 20.00–23.00
11. La Coruña	1106	271.2	2	08.00–01.00
12. Sabadell	1106	271.2	0.8	12.00–16.00, 19.00–24.00
13. Granollers	1187	252.7	0.28	12.00–16.00, 19.00–24.00
14. San Feliú	1187	252.7	1	10.00–24.00
15. Barcelona	1250	240.0	5	07.00–02.00
16. Mérida	1106	271.2	0.8	13.00–16.00, 20.00–23.00
17. Ayora	1250	240.0	0.08	13.00–16.00, 20.00–23.00
18. Villacarrillo	1187	252.7	0.8	12.00–16.00, 19.00–24.00
19. Murcia	1106	271.2	2	08.00–01.00
20. Villanueva	1106	271.2	0.04	13.00–16.00, 20.00–23.00
21. Barbastro	1187	252.7	0.8	12.00–16.00, 19.00–24.00
22. Menorca	1187	252.7	0.8	13.00–16.00, 20.00–23.00
23. Albacete	1187	252.7	0.8	10.00–24.00
24 Molins de Rey	1187	252.7	0.1	13.00–16.00, 20.00–23.00
25. Almeria	1187	252.7	2	10.00–24.00
26. Cartagena	1187	252.7	0.8	10 00–24 00
28. Baza	1250	240.0	0.8	13.00–16.00, 20.00–23.00
29. Ponferrada	1187	252.7	0.8	12.00–24.00
30. Laredo	1187	252.7	0.4	12.00–24.00
31. Balaguer	1250	240.0	2	12.00-16.00, 19.00–24.00

Call Name	kc	m	kW	h. of tr.
32. Motril	1187	252.7	0.08	12.00 16.00, 19.00 24.00
33. Villena	1250	240.0	0.4	13.00–16.00, 20.00–23.00
34. Osuna	1250	240.0	0.8	13.00–16.00, 20.00–23.00
35. Burjasot	1187	252.7	0.8	10.00–24.00
36. Alcañiz	1187	252.7	0.8	13.00–16.00, 20.00–23.00
37. Talavera	1250	240.0	0.4	12.00–16.00, 19.00–24.00
38. Bejar	1250	240.0	0.4	13.00–16.00, 19.00–23.00
39. Seo de Urgel	1187	252.7	0.25	13.00–16.00, 20.00–23.00
40. Aranjuez	1187	252.7	0.4	13.00–16.00, 20.00–23.00
41. Sama de Langreo	1106	271.2	0.4	10.00–24.00
42. Eibar	1106	271.2	0.4	12.00–16.00, 19.00–24.00
43. Vizcaya	1250	240.0	2	08.00–01.00
44. Torrelavega	1250	240.0	0.8	10.00–24.00
45. Inca	1106	271.2	2	10.00–24.00
46. Zaragoza	1106	271.2	2	08.00–01.00
47. Melilla	1250	240.0	0.4	13.00–16.00, 20.00–23.00
48. Monforte de Lemos	1250	240.0	0.4	13.00–16.00, 20.00–23.00
49. Villareal	1106	271.2	0.8	13.00–16.00, 20.00–23.00
50. Calahorra	1250	240.0	0.8	12.00–24.00
51. Ayamonte	1106	271.2	0.8	13.00–16.00, 20.00–23.00
52. Aranda de Duero	1250	240.0	0.8	12.00–16.00, 19.00–24.00
53. Miranda de Ebro	1187	252.7	0.4	13.00–16.00, 20.00–23.00
54. San Clemente	1250	240.0	0.8	13.00–16.00, 20.00–23.00
55. Gibraltar	1187	252.7	1	10.00–24.00
56. Malaga	1106	271.2	2	07.00–02.00
57. Canarias	1106	271.2	1	10.00–24.00
58. Felanitx	1250	240.0	0.08	13.00–16.00, 20.00–23.00
59. Ciudad Rodrigo	1106	271.2	0.08	13.00–16.00, 20.00–23.00
60. Valdepeñas	1250	240.0	0.4	12.00–16.00, 19.00–24.00

FM: EFJ1 88.9 Mc 0.25 kW

D.PRGR.: Consist of cultural and educational prgrs., information service about the youth-work, actualities and entertainment.

ANN.: "Habla RADIO JUVENTUD DE... Estacion num... de la Cadena Azul de Radiodifusion". INT.-SIG.: Vibrafon. V. by QSL-card

SOCIEDAD ESPAÑOLA DE RADIODIFUSION (Comm.)

FI.: By adv – ADDR.: Av. de José Antonio 32 Apt. 745, Madrid. Cable: SER. Te.: 2-22-11-81 – L.P.: Pres.: A. Garrigues Diaz-Cañabate. Dir. Gen.: E. Fontán Pérez. Subdir. Gen. and Sec. Gen.: R. Varela Pol. Dir. Tec.: F. Martinez Gonzales. Dir. Prgr.: M. Rodriguez Cano. Dir. Comm.: M. Josefa Rubio. Dir. Traffic: B. Moreno Hidalgo.

STATIONS (Main st.s):

	Call	kc	m	kW	h of tr.
R. Barcelona	EAJ1	827	362.7	10	06.15–24.00
R. Valencia	EAJ3	1259	238.3	5	07.00–24.00
R. Galicia	EAJ4	1448	207.2	2	10.00–23.00
R. Sevilla	EAJ5	800	375.0	5	07.30–24.00
R. Madrid	EAJ7	809	370.8	20	07.00–24.00
R. San Sebastian	EAJ8	1025	292.7	5	08.00–23.30
R. Reus	EAJ11	1412	212.5	2	10 30–23.30
R. Bilbao	EAJ28	1133	264.8	5	09 00–23.30
R. Alicante	EAJ31	1448	207.2	2	10.00–23.30
R. Alcira	EAJ54	1493	200.9	2	09.00–23.30
R. Mediterráneo Valencia FM: 97 Mc				5	11.00–15.00, 18.00–23.30

ASSOCIATED STATIONS:

	Call	kc	m	kW	h of tr.
R. Requete de Navarra (Pamplona)	EAJ6	1492	201.1	2	10.00 00.15
R. Mallorca	EAJ13	1430	209.8	5	08.55 24.00
R. Castellón	EAJ14	1502	199.7	2	09.00 24.00
R. Granada	EAJ16	1448	207.2	2	09.00. 00.15
R. Murcia	EAJ17	1511	198.5	2	08.00–24.00
R. Rioja (Logroño)	EAJ18	1487	202.1	2	09.30–24.00
R. Asturias (Oviedo)	EAJ19	1268	236.6	5	10.00–24.00
R. Huesca	EAJ22	1475	203.4	2	10.30–24.00
R. Gandia	EAJ23	1412	212.5	2	09 00–24.00
R. Castilla (Burgos)	EAJ27	1448	207.2	2	12.00 24.00
R. Santander	EAJ32	1484	202.2	2	11.00 00.30
R. Gijón	EAJ34	1492	201.1	2	11.00 24.00
R. Pontevedra	EAJ40	1493	200.9	2	12.00–24.00
R. Coruña	EAJ41	1295	231.7	2	13.00–24.00
R. Albacete	EAJ44	1493	200.9	2	09.30–00.30
R. Valladolid	EAJ47	1475	203.4	2	10.00–00.05
R. Vigo	EAJ48	1403	214.0	2	08.00–00.45
R. Las Palmas	EAJ50	1313	228.5	0.5	09.00–24.00
R. Extremadura	EAJ52	1484	202.2	2	09.00–24.00
R. Salamanca	EAJ56	1331	225.4	2	11.00–24.00
R. Jerez	EAJ58	1492	201.1	2	12.00–23.00

RADIO NACIONAL DE ESPAÑA

HABLA PARA EL MUNDO HORAS EN GMT

En chino:	De 11.45 a 12.15 por 9360 kc De 14.30 a 15.00 por 9360 kc
En árabe:	De 15.30 a 17.30 por 9360 kc \ Para Maruecos por 6130 kc De 14.00 a 14.45, de 18.45 a 19.30 De 23.30 a 00.15
En ucraniano:	De 03.30 a 03.45 por 7105 kc De 12.45 a 13.00 por 7105 kc De 16.25 a 16.40 por 5995 kc
En checo:	De 03.45 a 04.00 por 7105 kc De 13.00 a 13.15 por 7105 kc De 16.40 a 16.55 por 5995 kc
En croata:	De 04.15 a 04.30 por 7105 kc De 13.30 a 13.45 por 7105 kc De 17.15 a 17.30 por 5995 kc
En leton:	De 04.00 a 04.15 por 7105 kc De 13.15 a 13.30 por 7105 kc De 16.55 a 17.15 por 5995 kc
En ruso:	De 04.30 a 05.00 por 7105 kc De 13.45 a 14.15 por 7105 kc De 17.30 a 18.00 por 5995 kc De 11.00 a 11.30 por 5995 y 9360 kc De 19.00 a 19.30 por 9360 kc De 07.00 a 07.30 por 9360 kc
En bieloruso:	De 17.30 a 17.50 por 9360 kc De 19.40 a 20.00 por 9360 kc
En estoniano:	De 05.00 a 05.15 por 7105 kc De 14.15 a 14.30 por 7105 kc De 18.00 a 18.20 por 5995 kc
En búlgaro:	De 05.15 a 05.30 por 7105 kc De 14.30 a 14.45 por 7105 kc De 18.20 a 18.35 por 5995 kc
En lituano:	De 05.30 a 05.45 por 7105 kc De 14.45 a 15.00 por 7105 kc De 18.35 a 18.55 por 5995 kc
En eslovaco:	De 05.45 a 06.00 por 7105 kc De 15.00 a 15.15 por 7105 kc De 18.55 a 19.10 por 5995 kc
En húngaro:	De 06.00 a 06.20 por 7105 kc De 15.15 a 15.35 por 7105 kc De 19.10 a 19.30 por 5995 kc
En rumano:	De 06.20 a 06.40 por 7105 kc De 15.35 a 15.55 por 7105 kc De 19.30 a 19.50 por 5995 kc
En polaco:	De 06.40 a 07.10 por 7105 kc De 15.55 a 16.25 por 7105 kc De 19.50 a 20.20 por 5995 kc
En albanes:	De 17.50 a 18.05 por 9360 kc De 20.00 a 20.15 por 9360 kc
En macedones:	De 07.10 a 07.30 por 7105 kc De 20.00 a 20.25 por 7105 kc
En inglés:	(Para Inglaterra): De 20.20 a 20.50 horas, por 9360 kc – (EE.UU. Costa Atlantica): De 03.15 a 04.00 horas, por 6130 y 9360 kc - (EE.UU. Costa Pacifico): De 04.15 a 05.00 horas, por 6130 y 9360 kc (EE.UU. General para los Estados): De 05.15 a 06.00 horas, por 6130 y 9360 kc
En francés:	De 20.50 a 21.20 horas, por 9360 kc (Para Marruecos): 13.15 a 14.00, 18.00 a 18.45, 22.45 a 23.30 horas por 6130 kc
En alemán:	De 21.20 a 21.40 horas, por 7105 y 9360 kc
En italiano:	De 21.40 a 22.00 horas, por 7105 y 9360 kc
En portugués:	(Para Brasil): De 22.15 a 22.45 por 9360 y 11815 kc
En español:	(Para españoles residentes en América): De 22.45 a 24.00 por 9360 y 11815 kc – (Para Hispanoamérica): De 00.00 a 03.00 por 9360 y 11815 kc – (Para Filipinos): De 11.15 a 12.15 por 15420 kc – De 01.00 a 02.00 por 9370 kc – Para Marruecos por 6130 kc: De 12.30 a 13.15 de 17.15 a 18.00, de 22.00 a 22.45-Atlántica: De 20.30 a 22.00 por 6130 kc Misioneros en Oriente: De 12.15 a 12.30 por 9360 kc – Para españoles residentes en el Extranjero: De 16.30 a 21.15 por 7105 kc España en la prensa del dia: De 10.15 a 11.15 por 6130 kc – Programa Nacional para Canarias: De 07.10 a 24.00 por 9370 kc

Treinta y cuartro servicos informativos, en veintidos idiomas llevan asi a todos los paises LA VOZ DE ESPAÑA.

RADIO NACIONAL DE ESPAÑA

SPEAKS TO THE WORLD TIMES IN GMT

In Chinese:	From 11.45 to 12.15 on 9360 kc From 14.30 to 15.00 on 9360 kc
In Arabic:	From 15.30 to 17.30 on 9360 kc To Morocco on 6130 kc: From 14.00 to 14.45, 18.45 to 19.30, 23.30 to 00.15
In Urainian:	From 03.30 to 03.45 on 7105 kc From 12.45 to 13.00 on 7105 kc From 16.25 to 16.40 on 5995 kc
In Czech:	From 03.45 to 04.00 on 7105 kc From 13.00 to 13.15 on 7105 kc From 16.40 to 16.55 on 5995 kc
In Croatian:	From 04.15 to 04.30 on 7105 kc From 13.30 to 13.45 on 7105 kc From 17.15 to 17.30 on 5995 kc
In Latvian:	From 04.00 to 04.15 on 7105 kc From 13.15 to 13.30 on 7105 kc From 16.55 to 17.15 on 5995 kc
In Russian:	From 04.30 to 05.00 on 7105 kc From 13.45 to 14.15 on 7105 kc From 17.30 to 18.00 on 5995 kc From 11.00 to 11.30 on 5995, 9360 kc From 19.00 to 19.30 on 9360 kc From 07.00 to 07.30 on 9360 kc
In Bielorussian:	From 17.30 to 17.50 on 9360 kc From 19.40 to 20.00 on 9360 kc
In Estonian:	From 05.00 to 05.15 on 7105 kc From 14.15 to 14.30 on 7105 kc From 18.00 to 18.20 on 5995 kc
In Bulgarian:	From 05.15 to 05.30 on 7105 kc From 14.30 to 14.45 on 7105 kc From 18.20 to 18.35 on 5995 kc
In Lithuanian:	From 05.30 to 05.45 on 7105 kc From 14.45 to 15.00 on 7105 kc From 18.35 to 18.55 on 5995 kc
In Slovak:	From 05.45 to 06.00 on 7105 kc From 15.00 to 15.15 on 7105 kc From 18.55 to 19.10 on 5995 kc
In Hungarian:	From 06.00 to 06.20 on 7105 kc From 15.15 to 15.35 on 7105 kc From 19.10 to 19.30 on 5995 kc
In Rumanian:	From 06.20 to 06.40 on 7105 kc From 15.35 to 15.55 on 7105 kc From 19.30 to 19.50 on 5995 kc
In Polish:	From 06.40 to 07.10 on 7105 kc From 15.55 to 16.25 on 7105 kc From 19.50 to 20.20 on 5995 kc
In Albanian:	From 17.50 to 18.05 on 9360 kc From 20.00 to 20.15 on 9360 kc
In Macedonian:	From 07.10 to 07.30 on 7105 kc From 20.00 to 20.25 on 7105 kc
In English:	(to Gt. Britain): From 20.20 to 20.50 on 9360 kc – (to USA, Atlantic Coast): From 03.15 to 04.00 on 6130/9360 kc – (to USA, Pacific Coast): From 04.15 to 05.00 on 6130/9360 kc – (to USA all States): From 05.15 to 06.00 on 6130/9360 kc
In French:	From 20.50 to 21.20 on 9360 kc (to Morocco): From 13.15 to 14.00, 18.00 to 18.45, 22.45 to 23.30 on 6130 kc
In German:	From 21.20 to 21.40 on 7105/9360 kc
In Italian:	From 21.40 to 22.00 on 7105/9360 kc
In Portuguese:	(to Brazil): From 22.15 to 22.45 on 9360/11815 kc
In Spanish:	(to Spaniards living in America): From 22.45 to 24.00 on 9360/11815 kc – (to Latin America): From 00.00 to 03.00 – 9360/11815 kc – (to Philippines): From 11.15 to 12.15 on 15420 kc – From 01.00 to 02.00 on 9370 kc – (to Morocco) on 6130 kc: – From 12.30 to 13.15, 17.15 to 18.00, 22.00 to 22.45 (Atlantic): From 20.30 to 22.00 on 6130 kc (to Missionaries in the East): – From 12.15 to 12.30 on 9360 kc – (to Spaniards living in Foreign Countries): From 16.30 to 21.15 on 7105 kc – (Spanish Press Review): From 10.15 to 11.15 on 6130 kc – (National Prgr. to Canary Islands): From 07.10 to 24.00 on 9370 kc

THE VOICE OF SPAIN brings thirtyfour informatory broadcasts in twentytwo languages to all countries.

RED DE EMISORAS DEL MOVIMIENTO
(R. E. M.)

EFE 1 "La Voz de Valladolid"
Angustias, 1
Valladolid.

EFE 4 "La Voz de Palencia"
Becerro de Bengoa s/n.
Palencia.

EPE 5 "La Voz de León"
Ordoño II, 28
León.

EPE 6 "La Voz de Extremadura"
General Primo de Rivera, 1
Cáceres.

EPE 8 "La Voz de Alicante"
Angel Lozano 14
Alicante.

EPE 10 "La Voz de Alava"
Calvo Sotelo, 34
Vitoria.

EPE 13 "La Voz de Sagunto"
Trinidad, 7
Sagunto (Valencia).

EPE 14 "LA VOZ DE MADRID"
Emisora Central
Ayala num. 15
Madrid-1.

EPE 15 "La Voz del Ferrol"
José Antonio, 75—77
El Ferrol (La Coruña).

EPE 17 "La Voz de Levante"
Pascual y Genis, 25
Valencia.

EPE 18 "La Voz de la Ribera Valenciana"
Moncada, 14
Játiva (Valencia).

EPE 19 "La Voz de Castellón"
Avenida Cernuda y Velasco s/n.
Castellón.

EPE 22 "La Voz del Principado de Asturias"
Asturias, 9
Oviedo.

EPE 23 "La Voz de Guipúzcoa"
Victor Pradera 12
San Sebastian.

EPE 24 "La Voz de Orihuela"
Ramón y Cajal, 38
Orihuela (Alicante).

EPE 25 "La Voz de Cantabria"
Pasaje del Arcillero, 2
Santander.

EPE 31 "La Voz de Vigo"
Avenida García Barbón, 3
Viga (Pontevedra).

EPE 33 "La Voz del Mediterráneo"
Hermanos Landa, 21
Tarragona.

EPE 40 "La Voz de la Costa Brava"
Ave María, 3
Palamós (Gerona).

EPE 50 "La Voz de Cataluña"
Córcega 291
Barcelona-8.

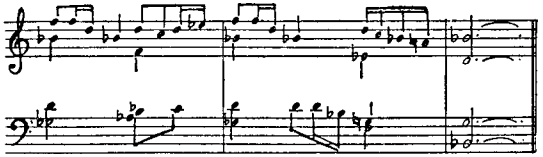
EPE 55 "La Voz de Ausona"
San Antonio, 4
Vich (Barcelona).

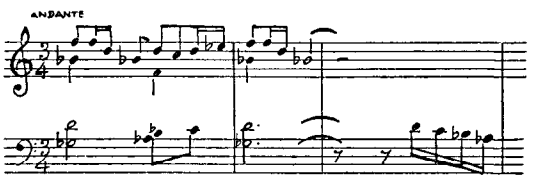
EPE 57 "La Voz de Navarra"
Navarro Villoslada 17
Pamplona.

Also 22 low-power stations.

	Call	kc	m	kW	h of tr.
R. Almeria	EAJ60	1420	211	1	10.30-24.00
R. Jaén	EAJ61	1450	207	2	11.00-24.00
R. Vitoria	EAJ62	1385	216.6	2	10.00-24.00
R. Leon	EAJ63	1502	199.7	2	10.00-24.00
R. Segovia	EAJ64	1502	199.7	2	12.00-24.00
R. Ciudad Real	EAJ65	1493	200.9	2	17.30-23.00
R. Lugo	EAJ68	1487	201.7	3	11.00-24.00
R. Zamora	EAJ72	1375	218	2	11.00-24.00
R. Zaragoza	EAJ101	872	344	30	08.00-24.00
R. Alcoy	EAJ12	1223	245.2	1.3	12.00-24.00

NATIONAL SERVICE:
The prgrs. of Sociedad Española are rel. simultaneously by all st.'s at the following hours: Mo 20.00–20.45, 21.30–22.00; Tues, Fri 19.30–20.45, 21.30–22.30; Sat 19.30–20.45, 21.30–24.00; Sun 16.00–19.00.
ANN.: National Service: "Transmite la Sociedad Española de Radiodifusión". **Local Service:** "Transmite Radio... de la Sociedad Española de Radiodifusión" **INT.-SIG.:**





V. by letter **PUB.:** "ONDAS" fortnightly.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)

ADDR.: Diego de Leon 50, Madrid. **Cable:** Ondatlantic.
STATION: EAJ29 953 kc 314.8 m 20 kW
HOME SCE.: D 09.00–02.00.

AFFILIATED STATIONS:

Name	kc	m	kW	Name	kc	m	kW
R. Alcoy	1490	201	0.8	R. Onteniente	1500	209	0.5
R. Algeciras	1511	198	1.5	R. Orense	1492	200	0.2
R. Alicante	7940	37.78	1.2	R. Asturias	1258	238	0.35
E. Almeria	1493	201	0.2	R. Andorra	998	301	140
R. Cadiz	1495	201	0.2	R. Elche	1519	197	0.2
R. Cordoba	1447	207	0.2	R. Gibraltar	1250	240	1.25
R. Huelva	850	352	2	R. Tenerife	1097	273	1.25
R. Lérida	1492	201	0.2	R. Inca (Baleares)	1106	271	2
R. Linares	1492	201	0.2	R. Miramar Barcelona	1313	228.5	1.5
R. Lugo	1500	200	0.2				
R. Malaga	989	308	8				
R. Manresa	1492	201	0.2				

ANN.: "Aqui Madrid Emisora Radio Intercontinental" – **INT.-SIG.:**

V. by QSL-card or by letter.

RADIO ESPANA

FI.: by Go. – **AD.:** Allowed, all day.
ADDR.: Manuel Silvela, 9, Madrid. **Cable:** Radiospaña. **Te.:** 2-23-29-40. – **L.P.:** Dir.: M. R. Zuasti. Dir. Tec.: L. Caceres.
HOME SCE.: Madrid EAJ 2 854 kc 351.2 m 15 kW: 07.00–24.00.
ADDR.: Ramblas 126, Barcelona.
HOME SCE.: EAJ15 1124 kc 266.9 m 3 kW: 12.30–23.00.

RUEDA DE EMISORAS RATO

ADDR.: Jorge Juan 27, Madrid. **Te.:** 2-36-04-07 – **L.P.:** Dir. Gen.: D. Ramon de Rato. Dir. Publicity: D. A. Ceballos.
MAIN STATION: EAJ49 R. Toledo 1142 kc 262.7 m 5 kW

HOME SCE.: 11.30–17.00, 20.30–00.30.

Branch stations:	kc	m	kW		kc	m	kW
EAJ60 R.Almeria	1394	215.2	2	EAJ19 R.Asturias	1268	236.6	5
EAJ26 R.Antequera	1367	219.5	2	EAJ50 R.Cadiz	1322	226.9	2
				EAJ35 R.Panades	1094	274	2

CADENA DE ONDAS POPULARES ESPANOLAS (COPE)

ADDR.: Avda. José Antonio 55 (Los Sotanos 25), Madrid 13 – L.P.: Dir. af Prgr. Central Services: D. P. González C.
STATIONS: E.O.P. num---.

	kc	kW		kc	kW		kc	kW
1	1142	2	R. Popular de Madrid	29	1322	1	Lorca	57	1358	2	Cáceres
				30	1142	1	San Javier	58	1097	2	Lugo
				31	1358	2	Orihuela-Alicante	59	1322	2	Orense
2	1097	2	Sevilla					60	1322	2	Plasencia
3	1097	2	Burgos	32	1279	1	Elda	61	1304	2	Segovia
4	1322	2	Pamplona	33	1142	2	Vigo	62	1142	2	Solsona
5	1097	2	Valencia	34	1142	2	Logroño	63	1358	2	Tarragona
6	1322	2	Zaragoza	35	1322	2	Las Palmas	64	1097	2	Tenerife
7	1304	2	Barcelona					65	1322	2	Teruel
8	1304	2	Santiago	36	1097	2	Toledo	66	1142	1	Calatayud
9	1322	2	Valladolid	37	1142	1	Benavente	67	1322	2	Menorca
10	1142	2	Oviedo	38	1322	2	Gerona	68	1322	2	Santander
11	1142	2	Málaga	39	1322	2	Granada	69	1358	2	Almeria
12	1349	2	Murcia	40	1142	2	Jáen	70	1322	2	Soria
13	1358	2	Bilbao	41	1097	1	Estepona	71	1358	2	Barbastro
14	1322	2	Huelva	42	1358	1	Véléz Málaga	72	1097	2	Ciudad Rodrigo
15	1097	2	Lérida								
16	1304	2	Vitoria	43	1322	2	El Ferrol	73	1304	2	Cuenca
17	1304	2	Cádiz	44	1322	2	San Sebastián	74	1097	2	Guadix-Baza
18	1358	2	Mallorca								
19	1142	2	Salamanca	45	1358	2	Avila	75	1322	2	Huesca
				46	1097	2	Albacete	76	1279	2	Jaca
20	1304	2	Córdoba	47	1097	2	Vich	77	1358	2	Palencia
21	1142	2	Badajoz	48	1097	2	Astorga	78	1358	2	Segorbe
22	1358	2	Ciudad Real	49	1142	1	Altea	79	1304	2	Seo de Urgel
				50	1358	2	LaCoruña				
23	1322	1	Puertollano	51	1142	2	Tortosa	80	1322	2	Alora (Málaga)
				52	1358	2	Guadalajara-Sigüenza				
24	1322	1	Ibiza					81	1358		Pozoblanco
25	1052	2	Leon								
26	1097	2	Zamora	53	1322	2	Tarragona	82	1097		Figueras
27	(Onda trop.) Fernando Poo	2		54	1304	1	Alcoy	83	1304		Güimar
				55	1142	1	Requena				
28	1142	1	Cieza	56	1205	1	Alcira				

SWEDEN

L.T.: GMT+1 h – Pr. L.: Swedish.
SVERIGES RADIO (Swedish Broadcasting Corporation) (Non comm. semigovt. broadcasting corporation).
FI.: By license payments – ADDR.: Radiohuset, Oxenstiernsgatan 2, Stockholm, Postal Addr.: Box 955, Stockholm 1. Cable: Broadcast. Te.: 670865 (local 631000).
L.P.: Chairman Board of Governors: Per Eckerberg. Dir. Gen.: Olof Rydbeck. Deputy Dir. & Dir. Adm.: Erik Mattsson. Dir.: Henrik Hahr. Dir. Tec.: Johan von Utfall. Dir. Prgr. Sound.: Nils-Olof Franzén. Dir. Prgr. TV: Nils-Erik Baehrendtz. Dir. Staff: Nils Ragnå. Dir. Pub. Dept.: Manne Ginsburg. Controllers Music: Nils Castegren. Spoken Word: Sound: Karl-Erik Lundewall, TV: Mats Rehnberg. Drama: Sound: Palle Brunius, TV: Henrik Dyfverman. Variety: Sound: Georg Eliasson, TV: Per-Martin Hamberg. Head Overseas Prgr.: Roland Pålsson. Head Press & Inf.: Philip von Krusenstierna. Head External Rel.: Mrs. Karin Bergman. TV prgr. exchange: Mrs. Marianne Lamby.
KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of license fees. Addr.: Stockholm 16. Cable: Gentel. Te.: Trunk calls: 236060, local calls: 236040 – L.P.: Dir. Gen.: H. Sterly. Chief of Radio Div.: E Esping. Chief of Broadc. Sce.: K. Ekström.

STATIONS: Medium Waves:

Station	Prgr.	kc	kW	Station	Prgr.	kc	kW
Boden	2	1594	0.15	Hudiksvall	1	1448	1.5
Borås	1	1562	2		2	1394	0.15
	2	1394	0.15	Hälsingborg	1	1448	1.5
Eskilstuna	1	1562	0.5	Hörby	1	1178	100
Falkenberg	1	1448	0.15	Jönköping	1	1448	2
Falun	1	1223	100		2	1594	0.2
Gävle	1	1448	0.5	Kalmar	1	1562	2
Göteborg	1	980	150	Karlskrona	1	1448	1.5
	2	1394	0.25	Karlstad	1	1562	1.5
Halmstad	1	1562	2		2	1394	0.15
	2	1394	0.15				

Station	Prgr.	kc	kW	Station	Prgr.	kc	kW
Kiruna	1	1562	0.5	Säffle	1	1448	0.15
	2	1394	0.15		2	1594	0.15
Kristinehamn	1	1448	0.15	Söderhamn	1	1562	0.06
	2	1594	0.15		2	1394	0.15
Ludvika	2	1394	0.15	Trollhättan	1	1448	2
Luleå	1	182	10		2	1594	0.15
	2	1394	0.15	Uddevalla	1	1562	0.5
Malmberget	1	773	2		2	1394	0.15
	2	1394	0.15	Umeå	1	1448	2
Malmö	1	1562	2		2	1594	0.15
Mariestad	2	1394	0.15	Uppsala	1	1562	2
Motala	1	191	600	Varberg	1	1562	2
Norrköping	1	1562	1.5		2	1394	0.15
Piteå	2	1394	0.15	Visby	1	1448	0.5
Porjus	1	1529	0.075	Vänersborg	2	1394	0.15
	2	1594	0.075	Västervik	2	1394	0.15
Stockholm	1	773	150	Västerås	1	1448	2
	2	1394	0.25	Örebro	1	1562	0.5
Sundsvall	1	593	150	Örnsköldsvik	1	1562	1.5
	2	1394	0.15		2	1394	0.15
				Östersund	1	719	150

Wired Broadc.: Prgr. 1: 164 kc 1829 m – Prgr. 2: 209 kc 1435 m.

Short Waves: Hörby I, II 100 kW. *Motala 12 kW.

kc	m	Prgr.	kc	m	Prgr.	kc	m	Prgr
6065	49.46	1	*7270	41.27	2	11880	25.25	1

FM:	Prgr.	Mc	kW	FM:	Prgr.	Mc	kW
Arvidsjaur	1	89.4	15	Nässjö	1	92.1	60
	2	93.0	15		2	99.0	60
Boden	1	94.5	60	Pajala	1	87.9	15
	2	99.4	60		2	93.0	15
	3	90.6	15	Skövde	1	95.1	15
Bollnäs	1	91.8	15		2	97.5	15
	2	96.0	15	Sollefteå	1	93.5	15
Borlänge	1	89.4	15		2	98.1	15
	2	93.0	15	Stockholm	1	92.4	60
Borås	1	88.5	3		2	96.6	60
	2	94.6	3		3	99.3	60
Bäckefors	1	92.7	60	Storuman	1	87.6	15
	2	96.8	60		2	91.2	15
Emmaboda	1	89.4	15	Sundsvall	1	92.7	60
	2	93.0	15		2	96.9	60
Gäddede (s)	1	93.1	0.03		3	99.2	60
	2	95.0	0.03	Sunne	1	90.9	60
Gällivare	1	90.0	60		2	94.5	60
	2	94.9	60	Sveg	1	90.6	60
Gävle	1	88.1	15		2	94.9	60
	2	97.4	15	Tåsjö	1	89.8	15
Göteborg	1	89.3	60		2	97.5	15
	2	96.3	60	Uddevalla	1	89.9	3
	3	99.4	15		2	93.1	3
Halmstad	1	91.2	15	Uppsala	1	90.3	3
	2	95.4	15		2	93.3	3
Hälsingborg	1	89.5	3	Varberg	1	90.4	3
	2	95.7	3		2	93.6	3
Hörby	1	88.8	60	Visby	1	97.2	15
	2	92.4	60		2	99.5	15
	3	97.0	60	Vännäs	1	88.5	60
Kiruna	1	89.1	60		2	92.1	60
	2	92.7	60	Västervik	1	91.8	25
Lycksele	1	95.4	15		2	96.0	25
	2	98.7	15	Västerås	1	95.7	15
Malmö	1	93.3	3		2	98.0	15
	2	98.7	3	Örebro	1	87.9	60
Mora	1	92.2	10		2	91.5	60
	2	96.7	10	Örnsköldsvik	1	90.8	3
Norrköping	1	90.0	60		2	94.4	3
	2	93.5	60	Östersund	1	87.9	60
					2	91.5	60

FM st's under construction 1) before Jan. 1st, 63, 2) before July 1st, 1963. * increase power).

	Prgr.	Mc	kW		Prgr.	Mc	kW
1) Emmaboda*)	1	93.0	60	1) Vaxjö	1	88.0	10
	2	96.7	60		2	90.6	10
1) Haparanda	1	91.3	60	2) Borlänge*)	1	89.4	60
	2	93.6	60		2	93.0	60
1) Skellefteå	1	93.8	60	2) Gävle*)	1	88.1	60
	2	96.3	60		2	97.4	60
1) Storuman*)	1	87.6	60	2) Karlskrona	1	89.1	3
	2	91.2	60		2	95.0	3
1) Tåsjö*)	1	89.8	60	2) Motala	1	91.1	3
	2	94.7	60		2	93.8	3

HOME SERVICE

FIRST PRGR. (light talk and music): Mo, Tues, Thurs 04.55–23.00, Wed, Fri 04.55–24.00. Sat 05.00–24.00. Sun 06.00–23.00 – **Night Prgr.** on 182/191/593/719/773/980/1178 (exc. 23.00–24.00 when 88.8 Mc is used)/1223 kc: Sun, Mo, Tues, Thurs 23.00–04.40, Wed 00.00–04.40, Fri 00.00–04.45, Sat 00.00–05.45.

Short Waves: 05.00–09.00, 6065 kc 09.00–12.00 9620 kc (3/3–1/9 63: 11880 kc).

N.: 07.00, 11.30, 14.00, 16.00, 17.30, 18.00, 21.00. Mo-Fri: 05.00, 06.00, 06.30, 20.00, W: 05.30, 10.00. **Wrp.:** (incl. Forecast for Swedish Waters) D 05.30 (W only), 07.00, 11.30, 18.00, 20.50. Forecast for Swedish Waters only: D 16.00, **Rel. Prgrs.:** Morning Sce.'s: W 05.20, 06.40, Sun Divine Sce.: 10.00, 16.10 – **Mbg.:** Thurs 16.10.

SECOND PRGR. (Light music to approx 17.00, serious talk and music after 17.00): Mo-Fri 04.40–22.30 (approx), Sat 04.45–22.30 (approx), Sun 05.45–22.30 (approx).

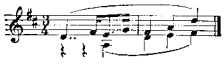
On 7270 kc: 04.40–22.30 (approx) – **On 6065 kc:** 17.00–21.30 – **Rel. Prgr.'s:** Evening Sce.'s: W 21.05, Sun 21.10 – **L.L.:** (Russian): Sun 17.00.

THIRD PRGR. (light music): W 17.15(Sat 17.00)–21.05. Sun 17.00–21.10.

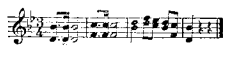
ANN.: (Nat. prgr.): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm".

INT.-SIG.: Home Service 1st Prgr.: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" and 2nd Prgr.: from Bellman's "Fredmans Epistel No. 64": "Fäll dina ögon och skäms nu din tåssa".

Home Service 1st Prgr.:



Home Service 2nd Prgr.:



FOREIGN SERVICE

Stations: Hörby 100 kW.

kc	m	kc	m	kc	m	kc	m
1178	254.7	7230	41.49	11705	25.63	15240	19.69
6065	49.46	9605	31.23	11805	25.41	15420	19.46
6095	49.22	9620	31.19	11880	25.25	17840	16.84
7210	41.61	9725	30.85	15155	19.80	17845	16.81

EUROPEAN SERVICE:

English: 22.00–22.30 6065 kc, 23.30–24.00 1178 kc.

French: 20.30–21.00 6095 kc, 21.45–22.15 11705 kc.

German: 21.30–22.00 6065 kc, 23.00–23.30 1178 kc.

Portuguese: 22.15–22.45 & **Spanish:** 21.15–21.45 11705 kc.

OVERSEAS SERVICE: I = Far East; II = Ea. No. Am.; III = So. Asia; IV = M. East; V = Africa; VI = So. Am.; VII = We. No. Am.; VIII = Mexico, C. Am. a) = English, b) = Swedish, c) = German, d) = Spanish, e) = Portuguese. A: 4/11-62 – 2/3-63; B: 3/3-31/8; C: 1/9-5/11.

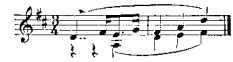
Times	Areas	L.	A kc	B kc	C kc
12.30–13.00	I	a	9620	15155	9620
13.00–13.45	I	b	11805	17845	17845
14.00–14.30	II	a	17840	17840	17840
14.45–15.15	III	a	11880	15420	15420
15.15–16.00	III	b	9605	17845	17845
16.15–16.45	IV	a	7210	11705	11705
			11705	15240	15240
16.45–17.30	IV	b	11705	11705	11705
17.45–18.15	V	a	11705	11705	11705
18.15–19.00	V	b			
19.15–19.45	V	c	11705	11705	11705
19.45–20.15	V	a			
23.00–23.30	VI	e	11705	11705	11705
23.30–00.30	VI	d	9620	9620	9620
01.00–01.45	II	b	6065	11805	11805
01.45–02.15	II	a			
01.00–01.45	VI	b	11705	11705	11705
01.45–02.15	VI	e			
02.15–02.45	VI	b			
02.45–03.15	VI	d			
02.30–03.15	VII	b	6065	11805	11805
03.15–03.45	VII	a			
04.00–04.30	VIII	d	6065	11805	11805

Radio Sweden reserves the right to alter the schedule if necessary.

DX-PRGR.: "**Sweden Calling DX'ers**": **In English:** Every Mo/Tues as last part of the English half hour at 12.30, 14.00, 16.15, 17.45, 19.45, 20.30, 23.30, 01.45, 03.15. **In German** Wed; **In Portuguese:** Wed; **In Spanish:** Once weekly.

ANN.: E. "This is Radio Sweden" – G. "Hier ist der Schwedische Rundfunk, Stockholm" – Fr. "Ici Radio Suède" – Sp. "Habla Estocolmo" – P. "R. Suécia apresenta" – Sw. "Sveriges Radio, Utlandsprogrammet".

INT.-SIG.: Foreign Service: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n".



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to Radio Sweden, Box 955, Stockholm 1.

PUB.: Monthly: "Radio Sweden" in six languages: English, German, French, Spanish, Portuguese, Swedish. Weekly: "Röster i Radio-TV".

IBRA RADIO AB (Non-Comm., Non-Go., Christian)

ADDR.: IBRA RADIO, Box 821, Stockholm 1 – **Studios:** The main studio is Sveavägen 34, Stockholm. **Cable:** "IBRA-RADIO".

L.P.: Pres.: Dr. Lewi Pethrus. Dir. Prgr.: H. Carlsson.

Stations	kc	m	kW	Time	Language
OQE15				Every sec.	
R. Bukava, Rep. Congo	4808	62.4	10	Sun 16.45–17.00	French
R. National C., Bolivia	6160	48.79	1.1	D 18.00–18.15	Spanish
Radio WIVV Vieques, Puerto Rico	1370	219	1	Thurs. 00.30–00.45	English
R. Riquelme CA96 Coquimbo, Chile	960	312	1.3	Sun	Spanish
R. Paraguay ZPA10 Asunción, Paraguay	6015 1300	49.88 231	1 1.5	Wed 17.15–17.30	Spanish
R. Kanto JOKF Yokohama JORF	1450 1380	207 203	3 10	Sun	Japanese

The same Japanese prgr. is also broadcast over: R. Hokkaido, Hokkaido, Japan – **PUB.:** "IBRA" in a Swedish and an English edition.

Advertisement:
IBRA RADIO FEDERATION is an international federation of listeners. Anybody can become a member of this federation. **"IBRA"**, the magazine is mailed to each memher. The membership fee is: Sw. Crowns 30.–, US$ 10.– or Engl. £ 1. IBRA RADIO MISSION is an organ receiving gifts in favour of the Swedish free radiowork.

SWITZERLAND

L.T.: GMT + 1 h – **Pr. L.:** German dialects, French, Italian, Romanche.

SWISS BROADCASTING AND TELEVISION CORPORATION

(A non profit making Comp.) – **FI.:** By license fee.

ADDR.: Schweizerische Radio-und Fernsehgesellschaft (SRG), Société Suisse de Radiodiffusion et Télévision (SSR), Società Svizzera di Radiotelevisione (SSR), Swiss Broadcasting and Television Corporation (SBC): Giacomettistrasse 1, Berne. **Cable:** Radif. **Te.:** (031) 44.55.55 – **Schweizerischer Kurzwellendienst,** Service Suisse des Ondes Courtes, Swiss Shortwave Service: Giacomottistrasse 1, Berne – **Te.:** (031) 44.66.44 – **Regional Centres: R. Zürich,** Brunnenhofstr. 20, Zürich – **R. Berne,** Schwarztorstr. 21, Berne – **R. Basel,** Novarsstr. 1, Basel – **R. Lausanne,** Maison de la Radio, La Sallaz, Lausanne – **R. Geneve,** 66 Boulev. Carl Vogt, Geneve – **R. Lugano,** Lugano-Besso.

L.P.: Pres. of the Board of Adm.: Dr. H. Oprecht. Dir. Gen.: M. Bezençon. Head of Adm. and Deputy Dir. Gen.: D. Carl. Dir. Swiss Shortwave Sce.: Dr. G. H. Padel. Head of the Editorial Dept. in Swiss Shortwave Sce.: Dr. H. de May. Head of "Programme Operations: Lance Tschannen. Dir. Swiss TV: E. Haas – **Managers of the Regional Centres: Beromünster:** Studio Zürich: Dr. Samuel Bächli. Studio Berne: Max Bolliger. Studio Basel: Dr. F. Ernst. **Sottens:** Studio Lausanne: J. P. Méroz, Studio Genève: Dr. R. Dovaz. **Monte Ceneri:** Studio Lugano: Dr. S. Molo.

HOME SERVICE

GERMAN:

First Prgr.: Sun 06.45–22.15. Mo-Fri 05.15–07.30, 10.00–22.15. Sat 05.15–22.15.

	kc	m	kW		kc	m	kW
Beromünster	529	567.1	150	Coire	1367	219.5	0.5
Basel	1367	219.5	0.5	Sool	1367	219.5	0.5

FM: Relay Beromünster:

	ch	Mc		ch	Mc		ch	Mc
Valseina I	11	90.3	Hornfluh I	3	87.9	Attinghaus	28	95.3
Sils I	29	95.7	Davos	29	95.7	Poschiavo I	4	88.2
Niederhorn I	34	97.2	Tarasp	27	95.1	Gurtnellen I	30	96.0
Celerina I	33	96.9	Sool I	26	94.8	Brusio I	2	87.6
Ernen	40	99.0	Geissholz	28	95.4	Buchserberg	15	91.6
Del Tiefenk. I	27	95.1	Brig I	23	93.9	Gotschnagrat	8	89.4
Ladir I	16	91.9	Leuk	20	93.0			

Symphony: Tues 19.00 – **N., Wrp.:** 05.15, 06.00 (Sun 06.50), 11.30, 18.30, 21.15 – **Commentary:** 18.40 (18.00: Current N. – Items, non-political); Fri 18.00: "World Chronicle", Mo 21.20: Review forSwiss

...THIS IS RADIO SWEDEN

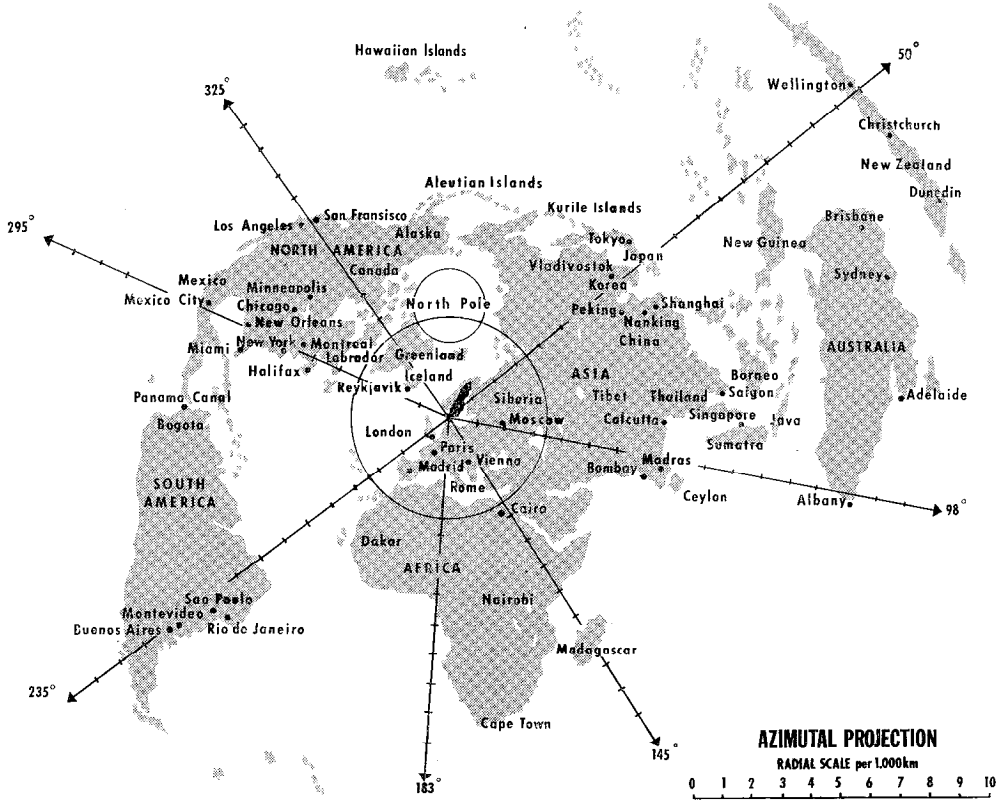
calling the world in six languages daily:

ENGLISH · FRENCH · GERMAN · SPANISH PORTUGUESE · SWEDISH

and bringing News, Music and Feature Programmes over Radio Sweden's 100 kW transmitters.

The transcription service

offers a wide range of recorded programmes about Sweden.



See p. 108 for schedules.

Switzerland

Abroad – **Mbg.:** Mo 19.30. **Im Auto durch die Schweiz** (joint programme in German, French+Italian for motorists) W 06.30–07.30. **Second Prgr.:** D 18.00–21.15. Sun approx. 12.20–21.15 – Local broadcasts in Romanche every third week: Sun 08.15 (Sermon), Fri 16.00–16.30 (Children's Hour, programme for the women, sick and elderly people, 19.00–19.30 (Current N.-Items). Local broadcasts in German: Sun 17.30–18.00.

FM:	ch	Mc		ch	Mc		ch	Mc
Basel	40	99.0	Säntis	28	95.4	Celerina II	3	87.9
Uelitberg	35	97.5	Bantiger	21	93.2	Sils II	23	93.9
Sool II	40	99.0	Ladir II	32	96.4	Tarasp II	15	91.6
Leuk II	36	97.8	Davos II	3	87.9	Ernen II	28	95.4
Valzeina II	41	99.3	Hornfluh II	30	96.0	Niederhorn II	22	93.6
Geissholz II	4	88.2	Gurtnellen II	15	91.5	Buchserberg	33	96.9
Del Tiefenk. II	38	98.4	Brig II	8	89.4	Gotschnagrat	32	96.6

FRENCH:
First Prgr.: Sun 06.10–22.15. Mo-Thurs: 06.00–13.00, 14.59–22.15. Fri & Sat 06.00–22.15, Sat 23.00.
Sottens 764 kc 392.6 m 150 kW – Savièse 1367 kc 219.5 m 0.5 kW.
FM: Relay Sottens:

	ch	Mc		ch	Mc		ch	Mc
Loeche	4	88.2	Ravoire	41	99.3	La Dôle	26	94.8
Les Ordons	24	94.2	Hornfluh	38	98.4			

Symphony: Wed 19.30, Thurs 20.30 – **N., Wrp.:** 06.15, 11.45, 18.15, 21.30 – **Commentary:** 18.00 micro-partout, after 17.00 Le micro dans la vie 18.25 Le miroir du monde (Fri: La situation internationale) – Sat 07.30–10.00 **"Route Libre"** – W 06.30 07.30 (Ici Autoradio Svizzera (joint programme in French, German and Italian for motorists) – **Mbg.:** Wed 19.00.
Second Prgr.: D 18.00–21.30. Sun 13.00–21.30.

FM:	ch	Mc		ch	Mc		ch	Mc
La Dôle	14	91.2	Leuk Feschel II	11	90.3	Hornfluh	15	91.5
Mt. Cornu	2	87.6	Les Ordons II	42	99.6	Ravoire	29	95.7

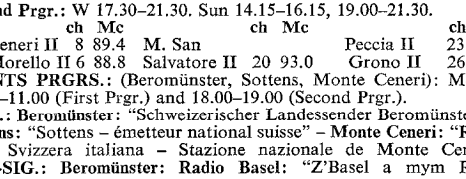
ITALIAN:
First Prgr.: Sun: 07.00–22.15. Mo-Thurs: 06.00–07.30, 10.00–13.00, 14.59–22.15. Fri 06.00–07.30, 10.00–22.15. Sat: 06.00–22.15 Monte Ceneri 557 kc 538.6 m 50 kW.
FM: Rel. Monte Ceneri:

	ch	Mc		ch	Mc		ch	Mc
M. Morello I	31	96.3	Poschavio	23	93.9	Peccia I	4	88.2
M. San Salvatore I	39	98.7	Brusio Grono I	15	91.5 42 99.6	Pizzo Matro	36	97.8

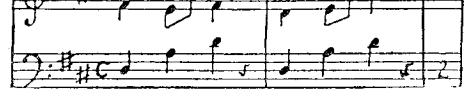
Symphony: Thurs 19.30 – **N., Wrp.:** 06.15 (Sun 07.15), 11.30, 18.15, 21.30 – **Comm.:** 18.20 – **Mbg.:** Sun 13.15 – **Ici Autoradio Svizzera** (joint programme in Italian, French, German for motorists): W 06.30–07.30.
Second Prgr.: W 17.30–21.30. Sun 14.15–16.15, 19.00–21.30.

FM:	ch	Mc		ch	Mc		ch	Mc
M. Ceneri II	8	89.4	M. San Salvatore II	20	93.0	Peccia II Grono II	23	93.9 26 94.8
M. Morello II	6	88.8						

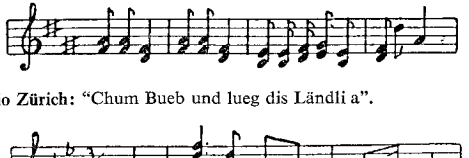
JOINTS PRGRS.: (Beromünster, Sottens, Monte Ceneri): Mo-Sat 10.00–11.00 (First Prgr.) and 18.00–19.00 (Second Prgr.).
ANN.: Beromünster: "Schweizerischer Landessender Beromünster". – **Sottens:** "Sottens – émetteur national suisse" – **Monte Ceneri:** "Radio della Svizzera italiana – Stazione nazionale de Monte Ceneri".
INT.-SIG.: Beromünster: Radio Basel: "Z'Basel a mym Rhy".



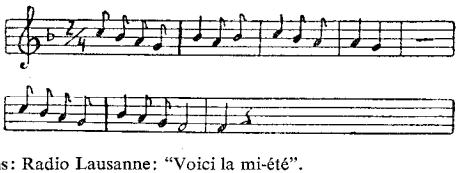
Radio Bern: "D'Zyt isch do".



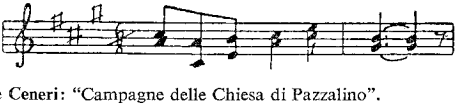
Radio Zürich: "Chum Bueb und lueg dis Ländli a".



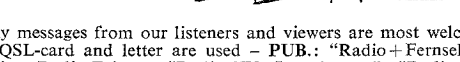
Radio Geneve: "Quelle fatale journée" chanson de l'Escalade.



Sottens: Radio Lausanne: "Voici la mi-été".



Monte Ceneri: "Campagne delle Chiesa di Pazzalino".



V. Any messages from our listeners and viewers are most welcome. Both QSL-card and letter are used – **PUB.:** "Radio+Fernsehen". Schweizer Radio-Zeitung. "Radio TV- Je vois tout". "Radiotivù". Prgr. sched. for Shortwave Sce. twice a year.

FOREIGN SERVICE

Schwarzenburg: 100 kW (output power).

Call	kc	m	Call	kc	m	Call	kc	m
HER2	6055	49.55	HEU3	9665	31.04	HEU7	17720	16.93
HER3	6165	48.66	HEI5	11715	25.61	HER7	17785	16.87
HEI3	7210	41.61	HER5	11865	25.28	HEI8	17795	16.86
HER4	9535	31.46	HER6	15305	19.60	HER8	21520	13.94
HED5	9545	31.43	HEU6	15315	19.59	HEI9	21605	13.89

EUROPEAN SERVICE:
German, French, Italian on 6165/9535 kc: W. 05.45–06.40, 11.00–12.30, 15.00–22.45. Sat.: 05.45–06.40, 11.00–22.45. Sun.: 06.10–22.45.
N.: German: 06.00 (W.), 06.50 (Sun.), 11.30, 18.30, 22.00. **French:** 06.15, 11.45, 18.15, 21.30. **Italian:** 06.30 (W.), 12.10, 22.30. – Esperanto: Mo., Wed. 12.20, Thurs., Sat. 21.15.

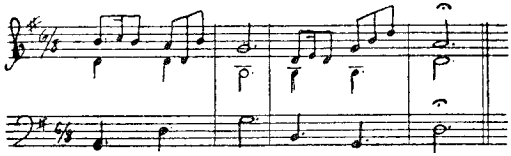
AFRICAN SERVICE:
English: D. 07.00–08.45 on 15305/11715/17795 kc, 14.45–16.30 on 21520 kc. – **Portuguese:** D. 06.40–07.00 on 15305/11715/17795 kc. – **German, French, Italian** (rebroadcast of European Service): W. 05.45–06.40 on 6165/9535/11715/15305 kc, 11.00–12.30 on 6165/9535/21520 kc, 15.00–17.30 on 6165/9535 kc, 17.30–22.45 on 6165/9535/9655/11715 kc. Sun. 06.10–06.40 on 6165/9535/11715/15305 kc, 06.40–11.00 on 6165/9535 kc, 11.00–12.30 on 6165/9535/21520 kc, 12.30–17.30 on 6165/9535 kc, 17.30–22.45 on 6165/9535/9655/11715 kc.

GENERAL OVERSEAS SERVICE:

English	Beamed Areas	kc
09.00–10.45	Au., N.Z., F. East	11865/15315/17795
12.45–14.30	S.E. Asia, Japan	9665/15315/17795
14.45–16.30	India, Pakistan	11865/15305/17795
16.45–18.30	Middle East	9665/11865
18.45–20.30	U.K. & Ireland	6055/9665
01.30–03.15	No. Amerika I	6165/9535/11865
04.15–05.00	No. Amerika II	6165/9535/11865

Prgrs. in all tr.'s:
N.: 5 min. after beginning of each transmission.
Echoes from Switzerland: W. – Topical Events: "On the Spot": Tues. – **Close-up** (feature on Swiss personalities and institutions): Wed. – **Swiss Progress Report:** Science, Industry and Trade: Mo. – **Swiss Gazette:** Life and People: Sun. – **DX-Corner:** Sat. (07.53, 09.53, 13.38, 15.38, 17.38, 19.38, 02.23, 05.23). – **Sun-spot information:** First Sat. of each month, 5 min. before DX-Corner. – **Youth Magazine:** Thurs. – **Religious Talk:** Sun. – **Music Made in Switzerland:** Sat. – **Swiss Concert Hall:** Fri. – **Promenade Concert:** Tues. – **Swiss Country Get-Together:** Mo. – **Jazz Panorama:** Thurs. – **Request Prgr.:** "Melody Train": Wed., Sun. – **SBC Mailbag:** every second Sun. – **For the Swiss abroad: French:** Mo., Thurs. – **Swiss-German dialect:** Tues., Fri. **Italian:** Wed., Sat.
Arabic: Fri. 17.30–18.00 on 9665/11865 kc. Prgr. prepared by the International Committee of the Red Cross in Geneva.
Spanish: 21.05–22.35 to Spain on 6055/9665 kc. 23.20–00.50 to So. America on 6165/9535/11865 kc. 03.30–14.15 to C. America on 6165/9535/11865 kc.
T.S., N., Comm., Musical greetings: D. – What's new in the record library ("Novedades de la discoteca"): Mo. – **Listener's questions** ("Consultorio radiofonico") or **Topical questions** ("Temas de nuestro tiempo"): Mo. – **Folk music** ("Musica popular"): Mo., Thurs. – Actual-

ity ("Pinceladas de actualidad"): Tues., Fri. – **Swiss Composers** ("Compositores suizos"): Tues. – **Economic review** ("Apuntes economicos"): Wed. – **Request prgr.** ("Bailables") Wed., Sat. – **Today's Singers** ("Los que ahora cantan"): Thurs. – **Window on the Road** (Ventana a la calle"): Thurs. – **Symphonic music** ("Musica sinfonica"): Fri. – **Swiss Gazette** ("Ecos de Suiza"): Sat. – **Rhythmic cocktail** ("Coctel de ritmos"): Sun. – **Features** Nov.-Jan. Events in Swiss history ("Estampas historicas"), Feb.–Apr. Adventure in a museum ("Aventura en el museo"): Sun.
Portuguese: 20.45–21.05 (Sun. 21.35) to Portugal on 6055/9665 kc. 23.00–23.20 (Sun. 23.50) to Brazil on 6165/9535/11865 kc.
N., Comm.: (Noticias e comentarios): D. – **Folk Music** (Musica popular): D. – **Features** (Coisas da Suiça): Thurs. – **Swiss Gazette** (Ecos da Suiça), **Request prgr.** ("Lembranças da Suiça): Sun.
ANN.: E: "This is Switzerland Calling". G.: "Hier spricht die Schweiz". F.: "Ici la Suisse". I.: "Qui è la Svizzera". Sp.: "Habla Suiza". P.: "Aqui Suiça".
INT.-SIG.: "Luegit vo Berg und Tal".



V.: Correct reports to P.O. Box, Berne 16 verified by QSL-card and letter. Rp(IRC) if airmail reply required.
PUB.: Prgr. schedule "Switzerland Calling" (twice a year spring and autumn) free-of-charge upon request.

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

ADDR.: R. Geneva, 66 Blvd. Carl Vogt, Geneva. – **L.P.:** Dir. Gen.: G. Kuhne.
In Peace time: ICRC organizes occasional test transmissions (4 times a year) on the frequency of 7210 kc 41.61 m by courtesy of Swiss Short Wave Service. **In Times of Crisis:** ICRC broadcasts programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day. – V. by QSL-card.

UNITED NATIONS BROADCASTING FROM GENEVA

FI.: By the UN Organization – **ADDR.:** Radio des Nations Unies, Palais des Nations, Genève. **Cable:** Omnipress. **Te.:** 33.10.00, Ext. 2315/2566 – **L.P.:** Dir. Inf.: H. Samper. Chief Radio Operations: I. H. Berenson.
FOREIGN SCE.: 9545 kc 31.43 m 25 kW: 13.00–13.15 (Mo only) **Hungarian** (to Hungary). 16.00–16.45 (Mo, Fri during the General Assembly sessions only, otherwise Mo only) **Russian** (to Ea. Au.). 6010/9575/11810 kc (via Roma): 19.20–19.35 (Mo–Fri during the General Assembly sessions only, otherwise Mo only) **Arabic** (to No. Africa, M. East).
ANN.: E.: "This is the United Nations Radio in Geneve". F.: "Ici les Nations Unies a Geneve".
INT.-SIG.:

V. by QSL-card or letter.

U.S.S.R.

L.T.: See time table – **Pr. L.:** Russian.

STATE COMMITTEE FOR BROADCASTING AND TELEVISION

ADDR.: Pjatnitskjaja ulitza 25, Moscow. **Cable:** Moskva Radio. **Te.:** 37090.
L.P.: Pres. of the Broadc. Committee: M. A. Harmalov. 1st Vice-Pres.: E. N. Mamedov. Vice-Pres. (TV): V. I. Tjernysjev. Vice Pres.: G. A. Kazakov. Dir. Tec. (Radio): V. F. Zjelezova. Chief Foreign Relations: H. A. Sarkisov.

STATIONS:

LONG & MEDIUM WAVES:

	kc	m	kW	H. of tr.
Moscow (RSFSR)	151	1987	50	1. prgr. 00.00–23.00
Petropavlovsk (RSFSR)	155	1935	10	01.00–06.00, 08.00–11.00, 18.25–21.00
Tashkent, (Uzbek SSR)	164	1829	50	00.00–10.45, 11.30–22.00
Moscow I (RSFSR)	173	1734	500	1. prgr. 03.00–23.00
Chita (RSFSR)	173	1734	20	22.05–16.20
Alma Ata (Kazakh SSR)	182	1648	10	00.30–09.00, 11.30–20.00
Tbilisi (Georgian SSR)	191	1571	50	02.00–09.20, 13.00–21.05
Irkutsk (RSFSR)	200	1500	20	22.00–03.00, 04.00–19.00
Moscow II (RSFSR)	200	1500	100	2. prgr. 05.45–12.20
Kiev-I (Ukrainian SSR)	209	1435	150	03.00–12.00, 13.00–22.00
Baku (Azerbaijian SSR)	218	1376	50	01.55–11.00, 12.30–21.00
Krasnoyarsk (RSFSR)	218	1376	50	23.00–08.00, 09.00–18.00
Alma Ata (Kazakh SSR)	227	1322	50	23.00–08.00, 12.00–19.00
Leningrad I (RSFSR)	236	1271	100	1. prgr. 00.00–23.00
Magadan (RSFSR)	236	1271		18.00–13.00
Vladivostok (RSFSR)	245	1224	100	23.00–14.00
Dushambe (Tajik SSR)	254	1181	50	23.52–10.00, 11.00–20.00
Kazan (Tatar ASSR)	254	1181	100	03.00–12.30
Yakutsk (Yakuts ASSR)	263	1141	10	22.00–01.55, 02.00–16.00
Moscow II (RSFSR)	263	1141	150	1. prgr. 03.00–22.00
Novosibirsk (RSFSR)	272	1103	100	23.00–07.00, 09.00–19.00
Minsk (Wh. Russian SSR)	281	1068	100	03.00–12.00, 13.00–22.00
Ulan Ude (Mongol ASSR)	281	1068	10	22.25–01.30, 03.30–16.30
Khabarovsk (RSFSR)	335	896		19.30–10.45
Moscow II (RSFSR)	340	882.4	100	2. prgr. 16.00–22.05
Yuzno-Sakhalinsk (RSFSR)	360	833	100	19.25–21.45, 01.00–11.30
Moscow II (RSFSR)	365	820	20	2. prgr. 16.00–21.05
Ashkhabad (Turkmen SSR)	375	800	10	00.55–11.20, 13.00–21.00
Moscow II (RSFSR)	385	779	50	2. prgr. 13.00–22.00
Tashkent I (Uzbek SSR)	400	750	50	00.00–10.00, 11.40–20.45
Minsk (Wh. Russian SSR)	400	750	50	1. prgr.
Odessa (Ukrain. SSR)	548	547.4	100	3. prgr.
Moscow III (RSFSR)	548	547.4	100	2. and 3. prgr.
Vladivostok (RSFSR)	548	547.4		
Volgagrad (RSFSR)	557	539	10	03.00–16.00
Riga (Latvian SSR)	575	521.7	100	02.58–12.00, 13.00–22.00
Frunze (Kirghiz SSR)	611	491	10	00.00–09.00, 10.58–20.00
Petrozavodsk (Kar. ASSR)	611	491	100	03.00–10.00, 13.00–22.00
Krasnodar (RSFSR)	611	491	20	
Simferopol, (Ukrain. SSR)	647	463.7	100	03.00–12.00, 13.00–21.00
Murmansk, (RSFSR)	656	457.3	150	03.00–12.00, 13.00–22.00
Vilnius I (Lith. SSR)	665	451.1	100	03.00–12.00, 13.00–22.00
Tjernovtsy (Ukrain. SSR)	674	445.1	50	
Ufa (Bashkir. ASSR)	692	433.5	100	01.15–10.30
Moscow II (RSFSR)	692	433.5	20	2. prgr.
Yussovka (Ukrainian SSR)	710	422.5	150	03.00–11.00, 13.00–21.05
Tallinn (Estonian SSR)	710	422.5	150	
Chelyabinsk (RSFSR)	737	407.1	10	00.55–10.20, 12.20–21.00
Moscow II (RSFSR)	737	407.1	20	2. prgr.
Odessa (Ukrain. SSR)	764	392.7	10	
Kiev II (Ukrainian SSR)	782	383.6	100	04.00–12.00, 13.45–17.30
Karaganda (Kazakh SSR)	782	383.6	20	03.00–13.00, 14.00–21.00
Leningrad II (RSFSR)	800	375	100	03.00–12.00, 13.00–17.00, 17.15–21.30*
Ashkabad (Turkmen SSR)	800	375	10	07.00–11.00, 13.00–21.00
Moscow II (RSFSR)	809	371	10	2. prgr. 05.45–21.05
Gorkij (RSFSR)	827	363	10	03.00–12.00, 13.00–22.00
Moscow II (RSFSR)	827	363	20	2. prgr. 16.00–21.05
Kharkov, (Ukrain. SSR)	836	358	20	17.00–21.05*
Kazan RSFSR (Tatar.ASSR)	845	355	10	05.00–11.00, 14.30–22.00
Yerevan, (Armenian SSR)	863	347.6	100	02.25–11.00, 11.50–12.50*, 13.30–20.05*
Moscow III (RSFSR)	872	344	150	3. prgr.
Stavropol (RSFSR)	881	340	20	03.00–12.00, 13.00–21.05
Ushgorod (Ukrain, SSR)	890	337.1	20	03.00–12.00, 13.30–15.30, 15.30–23.00*
Makhachkala	917	327.2	50	03.00–12.00, 13.00–21.00
Lvov (Ukrainian SSR)	935	320.9	300	03.00–12.00, 13.00–17.00, 17.00–23.00*
Smolensk (RSFSR)	971	309	150	2. prgr. 15.30–22.00*
Yuzhno-Sakhalinsk (RSFSR)	973	308		19.25–21.45, 01.00–13.05
Kishinjov (Moldavian SSR)	998	300.6	150	02.52–12.00, 12.43–20.30, 20.30–23.00*
Baku (Azerbaidjan SSR)	1016	295	20	as 218 kc
Tallinn I (Estonian SSR)	1034	290.1	100	02.55–09.00, 11.55–21.05, 21.05–21.40*
Tbilisi, (Georgian SSR)	1043	287	100	02.00–06.00, 13.00–21.05
Dnjepropetrovsk	1070	280.4	20	03.00–13.00, 13.00–21.00
Mogilev (Wh. Russ. SSR)	1106	271.2	100	
Vilnius II (Lith. SSR)	1106	271.2	100	02.00–11.00, 15.00–19.30
Moscow I	1115	269.1		12.45–19.00, 22.00–23.00
Leningrad III (RSFSR)	1124	266.9	20	03.00–12.00, 13.00–22.00
Kaliningrad (RSFSR)	1142	262.7	20	03.00–11.05, 12.45–15.30, 16.00–22.30
Kiev (Ukrainian SSR)	1169	256.6	150	17.00–22.00*
Kursk (RSFSR)	1214	247.1	20	
Tallinn II (Eston. SSR)	1214	247.1	20	
Moscow III (RSFSR)	1232	235	150	3. prgr. 16.20–21.00
Tiraspol (Moldavian SSR)	1241	241.7	100	
Kharkov II (Ukrain. SSR)	1322	226.9	100	
Tallinn (Eston. SSR)	1332	225.4	20	02.55–09.00, 11.55–21.05

USSR

	ka	m	kW	H. of tr.
Kuldiga (Latvian SSR)	1349	222.4	20	
Madona (Latvian SSR)	1349	222.4	20	
Valmiera (Latvian SSR)	1349	222.4	20	
Kaunas (Lithuan. SSR)	1385	216.6	150	03.00–13.00, 16.00–23.00*
Tallinn (Eston. SSR)	1403	213.8	20	02.55–09.00
Gomel (Ukrainian SSR)	1493	200.9	20	03.00
Baranovitji (Whiterussian SSR)	1554	193.4	20	

FM: Moscow I 4.27 m 70.1 Mc – FM II 4.52 m 66.4 Mc.

R. MOSCOW: Shortwave frequencies reported

kc (m)	kc (m)	kc (m)	kc (m)	kc (m)
4575(65.57)	7270(41.27)	9735(30.88)	11930(25.15)	15405(19.47)
4870(61.60)	7275(41.24)	9745(30.76)	11950(25.10)	15440(19.43)
4940(60.73)	7300(41.10)	9760(30.74)	11960(25.08)	15450(19.42)
5065(59.26)	7310(41.04)	9775(30.69)	11975(25.05)	15470(19.39)
5270(56.93)	7340(40.87)	9780(30.67)	11985(25.03)	15480(19.38)
5455(55.00)	7350(40.82)	9790(30.64)	12000(25.00)	17700(16.95)
5905(50.80)	7370(40.71)	9800(30.61)	12010(24.98)	17710(16.94)
5925(50.63)	7380(40.65)	9810(30.58)	12020(24.94)	17740(16.91)
5940(50.51)	7395(40.58)	9830(30.52)	12030(24.94)	17760(16.89)
5975(50.21)	7400(40.54)	11575(25.92)	12060(24.88)	17780(16.87)
5980(50.17)	7450(40.20)	11625(25.81)	12075(24.84)	17800(16.85)
6000(50.00)	9330(32.15)	11690(25.66)	15100(19.87)	17810(16.84)
6010(49.92)	9450(31.75)	11700(25.64)	15110(19.85)	17825(16.83)
6020(49.83)	9470(31.68)	11715(25.61)	15130(19.83)	17850(16.81)
6035(49.71)	9490(31.61)	11720(25.60)	15150(19.80)	17855(16.81)
6055(49.55)	9500(31.58)	11730(25.58)	15155(19.80)	17865(16.79)
6075(49.38)	9520(31.51)	11735(25.56)	15160(19.79)	17880(16.78)
6090(49.26)	9535(31.46)	11755(25.52)	15170(19.78)	17895(16.76)
6100(49.18)	9565(31.36)	11775(25.48)	15190(19.75)	17945(16.72)
6125(48.98)	9580(31.30)	11785(25.46)	15200(19.74)	21475(13.97)
6140(48.86)	9593(31.27)	11790(25.45)	15210(19.72)	21505(13.95)
6175(48.58)	9600(31.25)	11825(25.37)	15265(19.66)	21525(13.94)
6165(48.66)	9610(31.22)	11840(25.34)	15275(19.64)	21555(13.92)
6930(43.29)	9630(31.15)	11860(25.30)	15285(19.63)	21575(13.90)
7150(41.96)	9640(31.12)	11865(25.28)	15305(19.60)	21610(13.88)
7160(41.96)	9650(31.09)	11870(25.27)	15315(19.56)	21625(13.87)
7175(41.81)	9660(31.06)	11880(25.25)	15325(19.58)	21670(13.84)
7200(41.67)	9665(31.09)	11900(25.21)	15350(19.54)	21680(13.84)
7235(41.47)	9685(30.48)	11915(25.18)	15360(19.53)	21900(13.70)
7265(41.29)	9720(30.82)	11925(25.16)	15385(19.50)	

REGIONAL STATIONS:

Alma-Ata (Kazakh SSR): 4544 (66.01) 6770 (34.31) 5260 (57.03) 6795 (44.14) 9250 (32.43) 9380 (31.98) 10530 (28.50) – **Arkhangelsk:** 5010 (59.88) 5015 (59.82) 5930 (50.57) – **Armavir:** 17795 (16.86).

Ashkhabad (Turkmen SSR): 4825 (62.18) 6010 (49.92) 7330 (40.93).

Baku (Aserbaijan SSR): 4665 (64.60) 4958 (60.61) 9840 (30.49) 15150 (19.80).

Blagoveshchensk: 4975 (60.30) – **Chita:** 21550 (13.92) 21475 (13.97) – **Chimkent:** (Kazakh SSR) 4310 (69.61) – **Dzhambul:** 4460 (67.18).

Yerevan (Armenian SSR): 4930 (60.85) 5740 (52.26) 6075 (49.38) 7265 (41.29) 9625 (31.17) 9685 (30.98) 9760 (30.74) 11930 (25.15) 15115 (19.85) 15315 (19.59) 15490 (19.36) 17880 (16.78).

Frunze (Kirghiz SSR): 4050 (74.00) 9690 (30.96) 17785 (16.87).

Gorkij: 17755 (16.90) – **Guryev** (Kazakh SSR): 4959 (65.80).

Irkutsk: 6090 (49.26) 7210 (41.61) – **Ivanovo:** 5302 (56.60).

Kaunas (Lithuanian SSR): 6125 (48.98) 15320 (19.59) 17895 (16.76).

Kazan (Tatar. ASSR): 6175 (48.58) 15430 (19.44).

Khabarovsk: 4273 (70.21) 5110 (58.71) 5940 (50.51) 6020 (49.83) 6115 (49.06) 9377 (31.99) 9750 (30.77) 11690 (25. 66)11840 (25.34) 17865 (16.79) 21630 (13.87).

Kiev (Ukrain. SSR): 4940 (60.73) 6015 (49.88) 6020 (49.83) 6085 (49.36) 7132 (42.06) 7175 (41.81) 7185 (41.75) 7205 (41.04) 7290 (41.15) 7310 (41.03) 9560 (31.38) 9625 (31.17) 9665 (31.04) 11700 (25.64) 11740 (25.55) 11785 (25.46) 11820) (25.38) 11860 (25.30) 11890 (25.23) 15205 (19.73).

Komsomolsk: 6020 (49.83) 7280 (41.21) 9650 (31.09) 9725 (30.85) 11755 (25.52) 11850 (25.32) 11900 (25.31) 15195 (19.74) 15215 (19.72) 15235 (19.69) 15457 (19.41) 17745 (16.91) 17865 (16.79) 21600 (13.89).

Krasnoyarsk: 5290 (56.71) – **Kursk:** 17745 (16.91) 17825 (16.83) 17860 (16.80) 21625 (13.87).

Leningrad: 9600 (31.25) 9790 (30.64) 11630 (23.79) 11885 (25.24).

Lvov (Ukrain. SSR): 9790 (30.64) 17760 (16.89).

Magadan: 4996 (60.05) 7270 (41.27) 9500 (31.58) 11820 (25.38).

Makhachkala (Dhagestan ASSR): 4825 (62.18) 6130 (48.94).

Minsk (Bielo Russian SSR): 6820 (43.99) 7320 (40.62) 9520 (31.51).

Nicolayevsk (Ukrain. SSR): 5230 (57.36).

Novosibirsk: 5225 (57.42) 15422 (19.46) 21475 (13.97) – **Omsk:** 6190 (48.47).

Petropavlovsk: 5050 (59.41) 6070 (49.42) 11730 (25.58) 11755 (25.52) 11900 (19.93) 15110 (19.85) 15140 (19.82) 15250 (19.67) 17885 (16.78).

Petrozavodsk (Karelian ASSR): 5065 (59.23) 6055 (49.55).

Semipalatinsk: 4080 (73.60) – **Simferopol:** 9535 (31.46) 17815 (16.84) – **Dushambe** (Tajik SSR): 7330 (40.93) 9555 (31.40) – **Sverdlovsk:** 5960 (50.34) 9485 (31.63) – **Tallinn** (Estonian SSR): 6085 (49.30).

Tashkent (Uzbek SSR): 5925 (50.62) 6825 (43.96) 7100 (42.25) 9600 (31.25) 11925 (25.16).

Tbilisi (Georgian SSR): 5040 (59.52) 5980 (50.17) 17795 (16.86).

Tiraspol (Moldavian SSR): 17850 (16.81) – **Tula:** 17785 (16.87) – **Ufa** (Bashikia. ASSR): 4486 (66.88) 4315 (69.35).

Ulan Ude (Buryat-Mongol ASSR): 17775 (16.88) 17875 (16.79).

Uralsk (Kazakh SSR): 4873 (61.56) – **Vladivostok:** 5015 (59.82) – **Vologda:** 17825 (16.83) 21525 (13.94) – **Yakutsk:** (Yakut ASSR): 5979 (50.18) – **Yuzhno Sakhalinsk:** 4092 (71.88) 21600 (13.89).

HOME SERVICES

RADIO MOSCOW:

First prgr.: 03.00–12.00, 12.00–12.45 (Sat, Sun, Mo only) 12.45–22.00, 22.00–23.00 (Sat, Sun only).

Long & Medium Waves: 03.00–23.00 on 151/263/236 kc; 06.00–23.00 on 173 kc; 12.30–19.00, 22.00–23.00 on 1115 kc; 12.30–22.00 on 400 kc; 06.30–12.00 on 971 kc; – In **61 m.b.** 12.45–21.05; in **51 m.b.** 03.00–11.00, 14.30–23.00; in **41 m.b.** 03.00–22.00, in **25,31 m.b.** 03.00–21.05.

N.: 03.05, 05.00, 06.00, 10.00, 11.00 (W), 13.00, 14.00 (W), 16.00, 18.00, 19.30, 20.50 – **Prgr. Review:** 03.35, 05.15, 09.15, 16.18.

Second Prgr.:

03.00–06.00 on 173 kc; 05.45–13.00 on 548/692/809/737 (Sun only); also on 200 kc to 12.20; 12.00–15.00 on 971 kc; 13.00–16.00 on 385/548/737/692 (Sun only); 13.00–14.00 on 809 kc; 15.30–22.00 on 692 kc; 16.00–22.00 on 809/340/365/385/827/836 (from 19.00). **In 41 m.b.:** 03.30–09.00, 13.00–22.00. **In 25 m.b.** 05.45–14.30.

N.: 04.25, 05.25, 20.30.

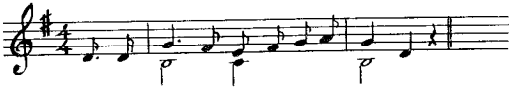
Third Prgr.: D 16.20(Sun 16.00)–21.00 on 548/872/1232 kc and in 55, 31, 25 m.b.

Fourth Prgr. (For The Eastern part of the country): 14.00–19.00 in the 67, 50, 41, 31 and 25 m.b. – **N.:** 14.00, 16.20, 18.00.

Prgr. for the Far East (Eastern Siberia): 20.30–21.00 in the 49, 41, 31, 25 m.b., 22.30–23.15 in the 49, 41, 31, 25 m.b., 00.00–14.00 in the 31, 25, 19, 16 m.b.

Prgr. for Western Siberia, Ural, Kazahkstan, C. Asia: 00.00–03.00 on 151, 236 kc and in the 49, 41, 31, 25 m.b. – **Prgr. in German:** D 01.15–02.00 in 49, 41, 31, 25 m.b. and on 692 kc (Ufa), 737 kc (Chelyabinsk). **ANN.:** R.: "Govorit... (name of station: Moskva, Alma-Ata, Baku, Leningrad, Tashkent etc.)", G.: (R. Moscow) "Hier ist Moskau mit seiner Sendung für die sowjetdeutsche Bevölkerung".

INT.-SIG.: For Home Foreign Service:



PUB.: "Radioprogrammy" (weekly) and "Televideniye" (weekly for Tel. prgrs.).

R. ALMA-ATA: Home Sce. in Kazakh and Russian:

1st prgr.: W 00.30–09.00, 11.30–20.00. Sun 00.30–20.00. 00.30–20.00 on 182 kc, 00.30–14.00 also 10530/9380/9250/6795/6770/5260/4544 kc, 14.00–16.00 also 10530/6795/5260 kc.

N. in Kazakh, Russian (10 min. later):

01.30, 08.50, 12.00 (Sun), 13.00 (W) 15.00 (W) – **Concert:** W 13.35–14.00 – **Kazakh music:** 00.45–01.00 – **Relay R. Moscow:** 01.00–01.30, 02.30–05.15, 03.40–04.20, 05.00–07.15 (W), 10.30–11.10 (Sun), 13.00–20.00 (Sun), 16.00–20.00 including **N.** 03.00, 05.00, 06.00, 13.00 (Sun), 16.00, 18.00, 19.00.

2nd prgr.: 14.00–17.00 on 9380/9250/5970/4544 kc: **N. in Kazakh** 14.30, **Russian** 14.40 – **Chechen:** Fri 15.00 – **German:** Wed 14.45–15.30 – **ANN.:** Kazakh: "Almaty "Seylepturghan" – Russian: "Govorit Alma-Ata" – German: "Hier ist Radio Alma-Ata".

RADIO BAKU: Home Sce. in Azerbaidjan, Russian and Armenian:

1. prgr.: D 01.55–11.00, 12.30–20.50 on 218 kc, 01.55–04.00, 05.00–11.00 also on 9490 kc. **N. in Azerbaidjan:** 02.00, 09.00, 12.30, 15.00, 19.15 – **Azerbaidjan Music:** 02.40, 14.30, 18.20. **Russian:** 07.00–07.30, 09.00–09.30, 13.40–14.05. **N.:** 06.45, 07.15, 08.45 – **Armenian:** 05.40, 06.15, 08.30–08.45. **N.** (Relay R. Yerevan): 15.40. **Relay R. Moscow:** 03.00–04.00, 04.45–05.40, 07.45–08.00, 09.30–11.00, 19.30–20.50.

2nd prgr.: On 1016 kc 14.30–18.30. **N.:** 17.00 – **Azerb. music:** 14.30, 17.30 – **ANN.:** Azerbaidjanian: "Danishir Baku".

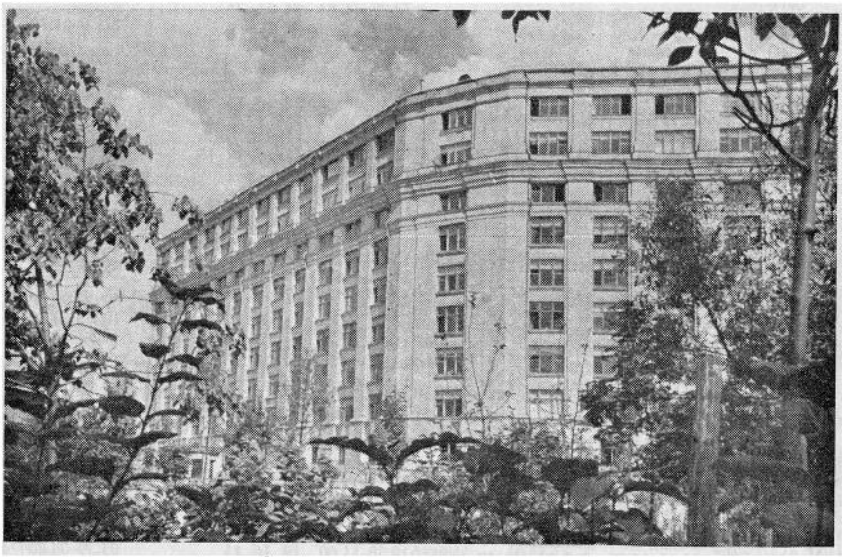
RADIO TASHKENT – ADDR.: Ul Choresmskaja 49, Tashkent, Uzbek SSR.

Home Sce. in Uzbek, Tadjik, Russian: 1st Prgr.: 00.00–18.00 on 164 kc, **2nd Prgr.:** 02.15–18.00 on 400 kc, **3rd Prgr.:** 10.30–13.00 on 5925 kc – **N.** from R. Moscow relayed every h. – **V.** by QSL-card.

RADIO YEREVAN (Go.)

ADDR.: First Aykestan St. 34, Radiohouse, Yerevan (Armenian SSR). **Te.:** 2-52-72 – **L.P.:** Dir. Gen.: H. Ayvazian. Dir. Tec.: A. Blkyan.

HOME SCE. in Armenian & Russian (relays of R. Moscow or local prgr's): 02.25–11.00, 12.50–13.30 on 863/7270 kc – **ANN.:** "Khosum e Yerevan" – **INT.-SIG.:** Ringing melody from an Armenian folklore song "Garouna" (Spring) by Komitas – **V.** by QSL-card.



The Broadcasting House in Moscow

HERE IS MOSCOW!

Moscow radio broadcasts to foreign listeners on short and medium waves in 41 foreign languages and 9 of the languages spoken in the Soviet Union.

In its broadcasts Moscow radio talks about life in the Soviet Union and about the most important international events.

The broadcasts from Moscow radio comprise news, comment, conversations, interviews, surveys, and special programmes for women, children and young people, scientific and technical, sporting and literary programmes, plus music.

To the microphone of Moscow radio come statesmen of the Soviet Union, prominent Soviet Russian scientists and cultural personalities, as well as foreign guests – political and public figures, representatives of business life, scientists, artists, workers, peasants and the clergy.

Moscow radio answers by radio and post letters from its listeners, broadcasts request concerts, arranges various competitions where winners receive prizes.

LISTEN TO THE BROADCASTS FROM MOSCOW RADIO

Hours of transmission and wave lengths are given in this handbook.

FOREIGN SERVICES
(Picture: See page 244)

RADIO MOSCOW TO EUROPE

Bulgarian m.b.
06.45–07.00 41, 31
17.30–18.00 321, 49, 41

Danish
16.00–16.30 49, 41
17.00–17.30 49, 41
19.30–20.00 49, 41, 31

Dutch
17.30–18.00 227, 49, 41
18.30–19.00 49, 41, 31
20.00–20.30 49, 41

English
07.00–07.30 49, 41, 31
12.00–12.30 25, 19, 16
18.30–19.30 49, 41
20.00–21.00 216, 49, 41
21.00–21.30 49, 41
21.30–22.00 216, 49, 41
22.00–22.30 227, 216, 49, 41

Finnish
09.30–10.00 (Sun) 375
17.15–18.30 / 19.00–19.45 49, 41

French
06.15–06.30 49, 41, 31, 25
11.30–12.30 25, 19, 16
18.00–18.30 49, 41, 31
19.00–20.00 216, 49, 41
20.00–20.30 49, 41, 31
21.00–21.30 49, 41, 31

German
06.30–06.45 49, 41, 31
10.30–11.00 / 12.45–13.15 / 16.00–17.00 25, 19, 16
17.00–17.30 / 18.00–19.00 / 19.30–20.00 227, 216, 49, 41
20.30–22.00 227, 49, 41

German for Austria
17.00–18.00 256, 49, 41
19.00–19.30 227, 49, 41, 31
20.30–21.00 256, 49, 41

Greek (*=to Cyprus)
14.00–14.30 31, 25, 19, 16
16.30–17.00 337, 309, 49, 41
17.30–18.00 337, 49, 41
18.30–19.00* 256, 49, 41
20.00–20.30 356, 49, 41
21.00–21.30 337, 49, 41

Hungarian
18.30–19.00 337, 49, 41, 31
20.30–21.00 337, 49, 41

Italian
06.00–06.15 41, 31, 25
11.15–11.30 25, 19, 16
17.30–18.30 49, 41, 31
19.00–19.30 49, 41, 31
19.30–20.00 337, 49, 41, 31
20.00–20.30 337, 49, 41, 31
21.00–21.30 309, 49, 41, 31

Macedonian
19.00–19.30 337, 41, 31

Norwegian
12.30–13.00 (Mo–Fri) 457
16.30–17.15 49, 41
19.45–20.15 375, 49, 41

Polish
17.30–18.00 216, 49, 41, 31
19.00–19.30 256, 49, 41, 31
21.00–21.30 256, 49, 41

Portuguese
17.30–18.00 / 19.30–20.00 49, 41, 31

Rumanian
08.00–08.30 41, 31, 25, 19
17.00–17.30 337, 49, 41

Serbo-Croat
11.00–11.15 25, 19, 16
18.00–18.15 337, 49, 41
18.30–19.00 321, 49, 41, 31
19.30–20.00 321, 49, 41
20.30–21.30 321, 49, 41

Slovenian
18.15–18.30 337, 49, 41
20.00–20.30 321, 49, 41

Spanish
12.30–12.45 25, 19, 16
18.00–18.30 49, 41, 31
20.00–21.00 41, 31
21.30–22.30 49, 41, 31

Swedish
18.30–19.00 / 20.15–21.00 375, 49, 41
21.00–21.30 375, 49

TO NEAR & MIDDLE EAST

Arabic
04.30–05.00 41, 31, 25, 19
13.00–13.30 31, 25, 19, 16, 13
17.00–17.30 309, 41, 31, 25
17.30–18.00 347, 309, 49, 31
18.00–19.00 309, 41, 31
19.00–20.30 309, 49, 41, 31

Persian
09.30–10.00 25, 19, 16
11.00–11.30 25, 19
12.30–13.00 25, 19, 13
14.45–15.30 347, 309, 49, 41[1], 31, 19
16.30–17.30 347, 49, 31
18.30–19.00 347, 49, 41

Pushtu (to Afghanistan)
13.30–14.00 397, 31, 25[1], 19, 16[2]
15.00–15.30 397, 41, 31, 19[2]
16.30–17.00 397, 41, 31

Turkish (*=to Cyprus)
10.00–10.30 25, 19
13.30–14.00 31, 25, 19
14.30–14.45* 31, 25, 19
15.30–16.30 309, 49, 31
18.00–18.30 347, 256, 49, 41
19.30–20.00 256, 49, 41

TO AFRICA

Arabic (to NW Af.)
20.30–21.00 309, 49, 41, 31

English
12.00–12.30 25, 19, 16, 13
15.00–15.30 31, 25, 19, 16
17.00–17.30 41, 31, 25[1], 19[2], 16[2]
18.00–18.30 31, 25
19.00–19.30 31, 25
20.00–20.30 / 21.00–21.30 31, 25

French
13.30–14.00 25, 19, 16, 13
16.00–16.30 41, 31[1], 25, 19, 16
17.00–17.30 49, 31, 25, 19
19.30–20.00 31, 25
20.30–21.00 49, 31, 25
21.30–22.00 31, 25

Amharic
16.30–17.00 31[1], 25, 19[2], 16
18.00–18.30 41, 31, 25

Hausa
17.30–18.00 31, 25, 19
18.30–19.00 / 20.00–20.30 31, 25

Italian
15.30–16.00 31[1], 25, 19

Portuguese
19.00–19.30 31, 25
20.30–21.00 41, 31, 25

Somali
10.30–11.00 25, 19, 16, 13
16.00–16.30 31, 25, 19, 16[1]

Swahili
10.00–10.30 / 11.00–11.30 25, 19, 16, 13
15.30–16.00 31, 25[1], 19, 16[2]
16.30 17.00 41, 31, 25, 19, 16
17.30–18.00 41, 31, 25[1], 16[2]
18.30–19.00 / 19.30–20.00 31, 25

Russian Lessons*
15.30–16.00 25, 19, 16
22.00–22.30 49, 31, 25
* Mo, Wed, Fri in French
Tues, Thurs, Sat in English

TO SOUTH EAST ASIA

English
07.30–08.00 25, 16, 13
09.30–10.00 548, 477, 240, 49, 41, 31
11.00–11.30 31, 25, 19, 16, 13
11.30–12.00 / 12.30–13.00 240, 49, 41, 31[2]
13.00–13.30 41, 31, 25, 19, 16
13.30–14.00 340[1], 240, 49, 41, 31[2]
15.00–15.45 31, 25, 16[2]
21.30–22.00 548, 477, 240, 49, 41, 31

Bengali
08.30–09.15 25, 19, 16, 13
11.00–11.45 31, 19, 16, 13
13.30–14.30 31, 25, 19[2]

Burmese
10.00–10.30 25, 16, 13
12.30–13.00 31, 25, 19, 16
15.00–15.30 25, 19

Indonesian
08.00–08.30 25, 19, 16, 13
10.30–11.00 / 11.30–12.30 31, 25, 19, 16, 13
13.30–14.30 25, 19

Hindi
10.30–11.00 19, 16, 13
12.30–13.00 31, 19, 16, 13[2]
14.30–15.00 31, 25, 19[2]
15.45–16.30 41, 31, 25, 16

Tamil
13.30–14.00 41, 25[1], 16, 13[2]

Urdu
09.15–10.00 25, 19, 16, 13
11.45–12.30 31, 19, 16, 13
14.00–15.00 377, 41, 31, 25[1], 16, 13[2]

Vietnamese
22.30–23.00 49, 31, 25
08.30–09.00 49, 41, 31, 25, 19, 13
10.30–11.00 548, 49, 41
12.00–12.30 49, 41
13.00–13.30 31, 25, 19, 16[2]
14.30–15.00 548, 49, 41, 31, 25, 19

TO FAR EAST

Chinese
11.00–11.30 548, 477, 49, 41, 25, 19
12.30–13.00 548, 477, 49, 41, 25
13.00–13.30 / 14.00–14.30 548, 477, 49, 41

Korean
21.00–21.30 548, 477, 240, 49, 41, 31
22.00–22.30 548, 477, 240, 49, 31
09.00–09.30 548, 477, 49, 41
10.00–10.30 / 11.30–12.00 548, 477, 49, 41, 31, 25, 19
13.30–14.00 548, 477, 49, 41, 31

Mongolian
09.30–10.00 1734, 31, 25, 19
13.15–14.00 41, 25[2]

Japanese
08.00–08.30 477, 240, 49, 41, 31, 25
08.30–09.00 548, 477, 240, 41, 31, 25
09.00–09.30 240, 41, 31, 25, 19
10.00–10.30 240, 49, 41, 31
10.30–11.00 477, 240, 49, 41, 31, 25, 19
11.00–11.30 240, 49, 41, 31[2]
12.00–12.30 548, 477, 49, 41, 31
13.00–13.30 340[1], 240, 49, 41, 31[2]

TO USA in English

First Prgr.
22.30–23.00 41
23.00–00.30 41, 31
01.00–03.00 49, 41, 31
03.30–06.00 41

Second Prgr.
17.30–20.30* 49, 41
03.00–07.30 41, 31

TO WEST INDIES

French (to Martinique)
00.00–00.30 41, 31
Thurs, Sun only

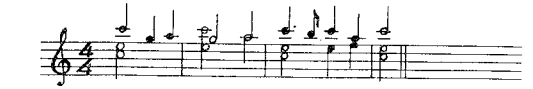
TO LATIN AMERICA

Portuguese (to Brazil)
21.30–22.30 / 23.00–23.30 41, 31
00.00–01.00 41, 31, 25, 19

Spanish
22.30–23.00* 41, 31
23.00–23.30**41, 31
23.30–24.00* 41, 31, 25, 19
00.30–01.00**41, 31
01.00–02.00* 41, 31, 25, 19
02.00–03.00* 31, 25, 19
03.00–04.00**49, 41, 31
04.00–05.00**41, 31

[1] to 1/3 63 [2] from 1/3 63
* to Latin America
** to Central America

R. BAKU
Azerbaijan: 04.00–04.15 in 60, 31 m.b., 13.30–14.45 & 16.00–17.00 in 31 m.b. – **Arabic:** 04.30–04.45 in 60, 31 m.b. – **Persian:** 12.00–13.00 in 60, 31 m.b., 15.00–15.30 in 31 m.b. – **Turkish:** 17.00–18.15 & 18.45–19.30 in 31 m.b. (Freq's reported 4958, 9840 kc). – **ANN.:** Azerbaijan: "Danishir Baku" – Arabic: "Huna Baku" – Persian: "Inja Baku" Turkish: "Burasi Baku" **INT.-SIG.:**



R. DUSHAMBE
Persian: 15.30–16.00 & 18.00–18.30 on 397 m – **Tadjik:** 12.30–13.30 on 397 and 41 m, 16.00–16.30 & 17.00–17.30 on 397 m. (41 m.b. is reported as 7330 kc).

R. EREVAN on 867/7270 kc:
Armenian: 15.30–16.25, 19.30–21.05 – **Arabic:** 14.00–14.40, 19.00–19.30 – **Kurdish:** 11.50–12.50 & 13.30–14.00.

R. KIEV
Ukrainian: 16.00–17.00 in 49, 41, 25 m.b. for Europe, 19.00–20.00 in 49 m.b. for Europe, 01.30–05.30 in 41 m.b. for No. America – **ANN.:** "Hovoryt Kiev".

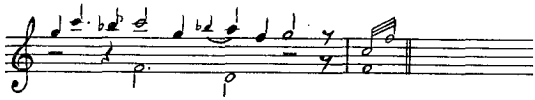
R. MINSK
Bielorussian: 21.30–22.30 in 49, 41, 31 m.b. (Freq's reported 7380, 9520 kc) – **ANN.:** "Havoryts Minsk".

R. RIGA
Latvian: 08.30–09.15 (Sun only) on 521 m, 21.15–22.00 (Tues) on 521, 236, 222 m – **Swedish:** 08.00–08.30 (Sun) on 521 m, 20.20–20.50 (Tues, Thurs, Sat) on 521 m, 21.30–22.00 (Tues, Fri, Sat) on 521, 236, 222 m

R. TALLINN – ADDR.: Eesti Radio, P.O. Box 402 Tallinn, Estonian SSR. **Cable:** "Estradio" – **Finnish:** 08.00–09.15 (Sun) on 290 m, 09.20–09.35 & 16.00–16.30 (W) on 290 m – **Swedish:** 21.05–21.40 (Mo, Wed, Fri, Sun) on 290 m – **ANN.:** Finnish: "Täällä Tallinna" – Swedish: "Här är Tallinn" – **V.** by QSL-card and letter.

R. VILNIUS – ADDR.: Lieturas TSR Radijas, ul. Kanarskio 49, Vilnius – **Lithuanian:** 22.00–22.30 in 49, 41 m.b. (to Europe), 22.30–23.00 in 49, 41, 31 m.b. (to No. America) – **V.** by QSL-card.

R. TASHKENT in 31, 25 m.b.:
English: 12.00–12.30, 14.00–14.30 – **Hindi:** 13.00–14.00 – **Persian:** 16.00–16.30, 17.30–18.00 (also on 397 m) – **Urdu:** 12.30–13.00, 15.00–15.30 – **Uzbekh:** 16.30–17.00 – **INT.-SIG.:**



V. by QSL-card.

VATICAN STATE

L.T.: GMT+1 h.

VATICAN RADIO (Rel.)

ADDR.: Vatican Radio, Vatican City. **Cable:** Vatican Radio. **Te.:** 698. **L.P.:** Dir. Gen.: Rev. Prof. Antonio Stefanizzi S.J. Dir. Prgr.: Rev. F. Ramirez S.J. Dir. Tec.: Dott. Ing. Tullio Gorio.

STATIONS:
Medium Waves:
HV2 782 kc 383.6 m 2 kW – HV100 1529 kc 196.2 m 100 kW
FM: 93.30, 96.30 Mc 0.5 kW.
Short Waves: 25/50/100 kW

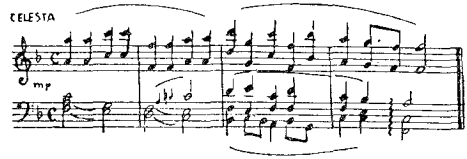
kc	m	kc	m	kc	m	kc	m
6030	49.75	9645	31.10	11940	25.13	17860	16.80
6190	48.47	9675	31.01	11925	25.16	17780	16.87
7235	41.46	9740	30.80	15120	19.84	21490	13.96
7250	41.38	11740	25.55	15190	19.74	21515	13.94
9540	31.44	11880	25.25	17840	16.82	25780	11.64
						1529	196.2

The wavelengths are subject to change with seasonal variations, or to avoid interference.

PROGRAM SCHEDULE: (October 62–April 63)

		kc
To Europe		
Albanian:	20.30 Tues, Thurs, Sat	6190, 7250, 1529
Bulgarian:	17.30 Tues, Thurs	6190, 7250, 9645, 1529
	11.10 Sun	7250, 9645, 11740, 15120, 1529
Croat:	17.45 Sun, Mo, Tues, Wed, Fri	6190, 7250, 1529
Czech:	12.30 D	7250, 9645, 11740, 1529
	19.30 D	6190, 7250, 9645, 1529
English:	15.00 D	9645, 11740, 15120, 1529
	18.15 D	7250, 9645, 11740, 1529
Estonian:	15.45 Sun	7250, 9645, 11740
French:	11.45 D	7250, 9645, 11740, 1529
	14.30 D	9645 11740, 15120, 1529
	19.15 D	6190, 7250, 9645, 1529
German:	12.45 D	7250, 9645, 11740, 1529
	14.45 D	9645, 11740, 15120, 1529
	19.45 D	6190, 7250, 9645, 1529
Hungarian:	13.00 D	7250, 9645, 11740, 1529
	21.00 D	6190, 7250, 9645, 1529
Italian:	13.30 D	6190, 7250, 9645, 11740, 1529
	18.30 D	6190, 7250, 9645, 11740, 1529
	16.00 Fri	6190, 7250, 9645, 1529
	21.30 D	1529
Latin:	11,30, 16,30 Tues, Thurs, Sat	7250, 9645, 11740, 15120, 1529
	21.15 Tues, Thurs, Sat	6190, 7250, 9645, 1529
	20.00 D (H. Rosary)	6190, 7250, 9645, 1529
Latvian:	17.30 Mo, Fri	7250, 9645, 11740, 1529
Lithuanian:	07.30 Sun	9645, 11740, 15120
	17.15 D	7250, 9645, 11740, 1529
Polish:	12.15 D	7250, 9645, 11740, 1529
	15.15 D	9645, 11740, 15120, 1529
	19.00 D	6190, 7250, 9645, 1529
Portuguese:	15.30 D	9645, 11740, 15120, 1529
	20.30 D	7235, 9740
Rumanian:	17.30 Sun, Wed, Sat	6190, 7250, 9645, 1529
Russian:	14.00 D	9645, 11740, 15120, 1529
	18.00 D	7250, 9645, 11740, 1529
Slovak:	12.00 D	7250, 9645, 11740, 1529
	20.15 D	6190, 7250, 9645, 1529
Slovene:	17.45 Thurs, Sat	6190, 7250, 1529
	20.30 Mo, Fri	6190, 7250, 1529
	10.50 Sun	7250, 9645, 1529
Spanish:	14.15 D	9645, 11740, 15120, 1529
	20.45 D	7250, 9645, 1529
Swedish, Danish, Norwegian:		
	20.30 Wed, Sun	7250, 9645, 1529
Ukrainian:	17.00 Sun, Tues, Thurs, Fri	7250, 9645, 11740, 1529
White Ruth:	17.00 Mo, Wed, Sat	7250, 9645, 11740, 1529
To Africa		
Arabic:	16.45 D	7250, 9645, 11740, 1529
English:	10.00 W	17840, 21490
	10.20 W	17840, 21490
Ethiopian:	16.30 Mo, Wed, Fri	9645, 11740, 15120, 1529
French:	10.50 W	17840, 21490
	11.10 W	17840, 21490
Portuguese:	10.35 W	17840, 21490
Swahili:	16.15 D	11880, 15120
To America		
Portuguese:	23.00 D	9645, 11740, 15120
Spanish:	23.30 D	9645, 11740, 15120
	00.00 D	9645, 11740
	00.30 D	9645, 11740
English:	00.50 D (for USA)	7250, 9675
To Asia		
Arabic:	16.45 D	7250, 9645, 11740, 1529
Chinese:	22.30 Tues, Thurs, Sat	7250, 9540, 11740
English:	16.00 Mo, Wed, Sat (for India)	9645, 11740, 15120
	22.30 Mo, Wed, Sat (for Philippines)	7250, 9540, 11740
Japanese:	21.45 Mo, Wed, Fri	7250, 9540, 11740
To Australia and New Zealand		
English:	11.30 D	15120, 17780
Musical Concert:		
	19.30 Sun	7250, 9645, 9740, 11740, 1529
	12.30 Mo	7250, 9645, 11740, 1529
	16.00 Thurs	7250, 9645, 11740, 1529
Latin Liturgy:		
	08.30 Sun	7250, 9645, 11740, 15120
Oriental Liturgy:		
	09.30 Sun	9645, 11740, 15120 152

OPENING SIGN: The bells of St. Peter's.
ANN.: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".
INT.-SIG.: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment – **V.** by QSL-card.



V by QSL-card or letter – **PUB** : Prgr.sched. free on request.

YUGOSLAVIA

L.T.: GMT+1 h – **Pr.L.:** Serbo-Croat, Slovenian, Macedonian.
JUGOSLOVENSKA RADIOTELEVIZIJA (Go.)
FI.: By license payments – **AD.:** Beograd 60 min, Zagreb 85 min, Ljubljana 65 min, Sarajevo 65 min, Skopje 135 min, Titograd 30 min, Novi Sad 70 min, Priština 30 min per day.
ADDR.: 70 Borisa Kidrića, Beograd. **Cable:** Jogoslovenska radiotelevizija Beograd. **Te.:** 43-677. **Telex:** 01-259 jurate beograd.
L.P.: Radiotelevision Yougoslave: Pres. Adm. Committee: D. Seliger. Vicepres.: D. Štrbac. Secr. Gen.: Dr. Ivko Pustišek. Head For. Rel.: Mrs. O. Vojvodić. Pres. Prgr. Com.: D. Seliger, Mrs. N. Erceg. Pres. Jur. Com.: L. Dimitrovski. Pres. Tech. Com.: Eng. S. Rojec. Pres. Prgr. Com. for TV: D. Štrbac. – **Radiotelevision Beograd:** Dir. Gen.: Z. Vuković. Dir. Prgr.: V. Pešić – **Radiotelevision Ljubljana:** Dir. Gen.: D. Seliger. Dir. Prgr.: Dr. E. Tomc – **Radio Skopje:** Dir.:

D. Tozija – **Radio Sarajevo:** Dir.: Mrs. D. Kurtović – **Radio Titograd:** Dir.: M. Brailo – **Radio Novi Sad:** Dir.: M. Olajoš – **Radio Pristina:** Dir.: R. Dauti.

MEDIUM WAVES:

Main stations:	kc	m	kW		kc	m	kW
Sarajevo	611	490.9	100	Ljubljana I	917	327.1	135
Beograd	683	439.2	150	Zagreb	1133	264.7	135
Skopje	809	370.8	135	Novi Sad	1268	236.6	100
Titograd	881	340.5	20	Priština	1412	212.4	20

Local Stations:

	kc	m	kW		kc	m	kW
Niš	926	324.0	10	Sljeme	1484	202.2	2
Rijeka I	1133	264.7	15	Rijeka II	1484	202.2	2
Koper	1169	256.6	6	Novi Sad II	1484	202.2	2
Maribor	1412	212.4	6	MurskaSobota	1484	202.2	2
Osijek	1412	212.4	2	Tuzla	1484	202.2	2
Split	1484	202.2	2	Brčko	1484	202.2	0.1
Bitola	1484	202.2	2	Ohrid	1484	202.2	2
Celje	1484	202.2	0.5	Črnomelj	1484	202.2	0.05
Dubrovnik	1484	202.2	2	Radlje	1484	202.2	0.05
Beograd II	1484	202.2	2	Vinkovci	1484	202.2	0.02
Ljubljana II	1484	202.2	2	Vukovar	1484	202.2	0.01

SHORT WAVES:

Beograd 10/10/50/100 kW

kc	m	kc	m	kc	m	kc	m
6100	49.18	7200	41.67	9505	31.56	11735	25.56
6150	48.78	7240	41.44	9620	31.18	15240	19.69

FM	Mc	kW		Mc	kW		Mc	kW
Beograd	88.1	1	Velebit-Čelavac	93.3	10	Nanos II	95.3	2.5
Beograd-Avala	97.3	1	Dubrovnik	97.3	1.25	Ljubljana I	96.5	1.5
CrveniČot	94.5	50	Zagreb	96.9	0.06	Ljubljana II	93.5	2.5
Jastrebac	96.9	50	Zagreb	99.3	0.09	Kum I	94.1	4.5
Novi Sad	97.7	5	Solunska Glava	97.7	1	Kum II	90.9	2.5
Novi Sad	90.5	5				Pohorje I	88.5	0.375
Priština	90.5	1	Mali Vlaj	93.3	0.1	Pohorje II	96.9	2.5
Goleš	95.7	25	Koper-Mirna					
Sljeme	92.1	3	B. Križ	97.7	0.375	Gora I	97.9	2.5
Psunj	97.3	1.25	Koper-Mesto	89.3	1	Sarajevo I	95.7	1
Stipanov Grič	89.6	2.5	Nanos I	92.9	1.5	Skopje	94.5	1
						Titograd	96.1	0.35

HOME SERVICE

R. Beograd: W 03.00–23.05(Sat 24.00). Sun 04.00–23.05. **N.Comm.:** 07.00, 09.00, 11.00, 12.00, 13.00, 15.00, 17.00, 21.00, 23.00.
R. Zagreb: W 04.00–23.05(Sat 24.00). Sun 05.00–23.05. **N.Comm.:** 07.00, 08.30, 10.00, 12.00, 14.00, 16.00, 23.00.
R. Ljubljana: W 04.00–23.00. Sun 05.00–23.00. **N.Comm.:** 04.05, 05.00, 06.05, 07.00, 09.00, 11.00, 12.00, 14.00, 16.00, 17.00, 21.00, 22.00, 23.00.
R. Skopje: D 03.55–23.00. **N.Comm.:** 04.15, 06.30, 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 16.00, 21.00, 22.00, 23.00.
R. Sarajevo: W 04.00–07.30, 11.00–23.00. Sun 04.00–23.00.
R. Titograd: W 04.30–06.30, 12.00–21.00. Sun 05.00–21.00. **N.Comm.:** 04.30, 12.00, 13.00, 15.00, 20.30.
R. Novi Sad: D 04.00–23.00. **N.Comm.:** 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 20.30, 23.00.
R. Pristina: W 04.30–07.00, 11.00–23.00. Sun 05.00–23.00. **N.Comm.:** 05.30, 07.00, 11.00, 12.30, 13.30, 15.00, 17.00, 21.00.

FOREIGN SERVICE

Albanian kc
14.00–14.30 6100, 9505, 11735
18.30–19.00 881, 9505

Arabic
15.00–15.15 6100, 9505, 11735
17.30–18.00 6100, 7200
19.45–20.00 6100, 9505, 7200

Bulgarian
14.00–14.30 917
18.00–18.30 6100, 7200, 9505
09.00–10.00 (Sun) 917

Czech
16.45–17.00 6100, 7200, 9505
20.00–20.30 6100, 7200, 9505
21.30–21.45 1268

English
15.30–16.00 9505, 11735, 15240
18.30–19.00 6100, 7200
22.00–22.15 1268, 6100, 7200, 9505

French kc
16.30–16.45 6100, 11735, 9505
19.30–19.45 6100, 7200, 9505
22.15–22.30 1268, 6100, 7200, 9505

German
17.30–18.00 9505
20.45–21.00 6100, 7200, 9505

Polish
16.00–16.30 6100, 11735, 9505
20.30–20.45 6100, 7200, 9505

Russian
04.30–04.45 1268, 6100, 11735. 9505
14.30–14.45 6100, 11735, 9505
17.00–17.20 6100, 7200, 9505
19.00–19.30 6100, 7200, 9505

Spanish
00.00–00.30 11735, 7200, 9505
01.00–01.30 11735, 7200, 9505
21.30–22.00 6100, 7200, 9505

ANN.: Home Service: "Here is Radiotelevision Beograd,...Zagreb, ...Ljubljana etc." – "Ovde Radiotelevizija Beograd, ...Zagreb, ...Ljubljana etc." – Foreign Service: "This is Yugoslavia, Radio Belgrade calling" – "Ici la Yougoslavie, Belgrade vous parle".
INT.-SIG.: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade).

V. by QSL-card. Re. to: Chief Editor of External Broadcasting Mr. J. Defranceski, 2 Hilendarska, Beograd – **PUB.:** "Radio Televizija" (weekly).

AFRICA

ALGERIA

L.T.: GMT+1 h – **Pr. L.:** French, Arabic, Kabyl.

RADIO ALGERIE (Go.)

FRENCH NETWORK:

	kc	m	kW		kc	m	kW
Alger II	980	306.1	200	Bone(fr.17.00)	1484	202.2	0.2
Constantine	1142	262.7	20	Bougie(fr.19.30)	1594	188.2	0.6
Oran I	1142	262.7	40	Alger OCI	11835	25.35	50

W 05.30–08.30, 10.00–13.30, 15.00–23.00, Sun 06.00–23.00.
N.: 06.30, 12.00, 19.00, 21.45 – **Wrp.:** 11.58, 18.58.

ARABIC NETWORK:

	kc	m	kW		kc	m	kW
Alger I	890	337.1	200	Constantine II	1304	230	20
Oran II	1304	230.0	40	Alger OC2	9685	30.98	50

KABYL NETWORK:

	kc	m	kW		kc	m	kW
Alger III	1421	211	40	Bougie (even.)	1594	188	0.6
Michelet(even.)	1570	191.0	5	Alger OC3	6160	48.70	50

SAHARA NETWORK (relays French & Arabic Netw. and local prgr.s):

Colomb-Bechar 548 kc 547.5 m 4 kW } 05.30–08.00, 11.00–14.00,
Touggourt 557 – 539.0 – 4 – } 16.00–23.00
Laghouat 575 – 522.0 – 4 – }

SUPPLEMENTARY NETWORK (relays French, Arabic netw. and local prgr.s): 11.00–13.15, 17.00–23.00.

	kc	m	kW		kc	m	kW
Bouira	692	434	1	Tebessa	926	324	0.05
Tlemcen	746	402	1	Batna	1016	295	0.05
Setif	854	351	0.05	Souk Ahras	1079	278	1

ANN.: F.: "Ici R. Algerie qui vous parle sur les endes d'Alger 306 m Oran et Constantine 262 m" – V. by QSL-card.
No new information had been received when this edition went to print.

ANGOLA (Portuguese West Africa)

L.T.: GMT+1 h – **Pr. L.:** Portuguese.

EMISSORA OFICIAL DE ANGOLA (Go.)

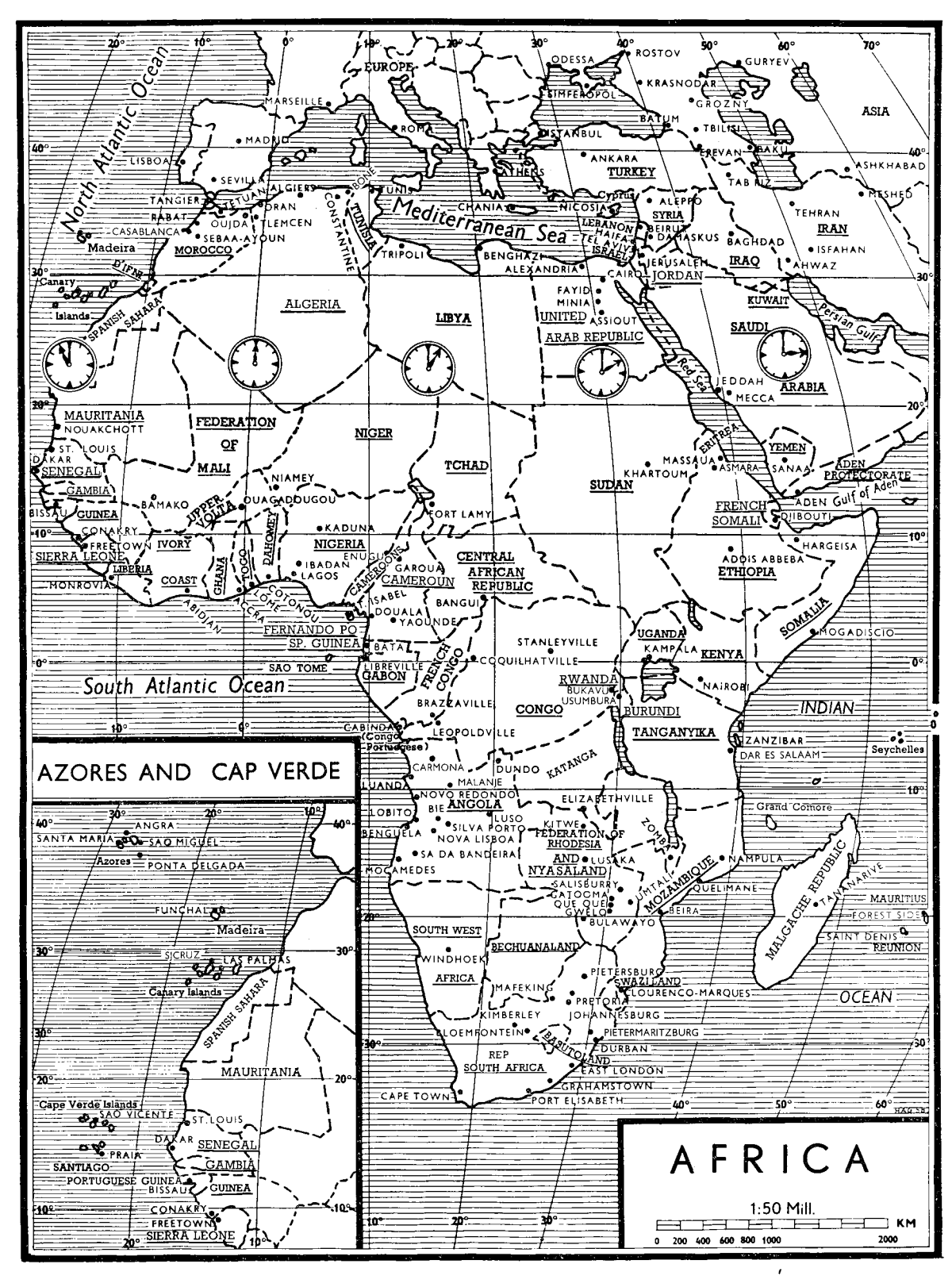
FI.: By state – **ADDR.:** C. P. 1321, Luanda – **Te.:** 2192 – **L.P.:** Dir. Gen.: F. de Carvalho. Dir. Tec.: J. C. Proença.

STATIONS: CR6RZ
1350 kc 222.2 m 1/3 kW – 6025 kc 49.79 m 10 kW – 17795 kc 16.86 m 10 kW – 4995 kc 60.06 m 3 kW – 9765 kc 30.72 m 1 kW.

HOME SERVICE:
W 06.00–07.30 on 1350/4995 kc – 11.00-13.30 on 1350/4995/9765 kc, 17.30–21.00 on 1350/4995/6025 kc – 21.00–23.00 on 1350/4995/6025/17795 kc – Sun 08.00–11.00 on 1350 kc – Sun 11.00–17.00 on 1350/4995/9765 kc – 18.00–23.00 on 1350/4995/6025/17795 kc.
N., Comm., Wrp.: 06.05, 12.00, 19.00, 22.45 – **Actualities from Angola Metropolitan Portugal:** Sun 12.00, 19.00, 22.45 – **Tourist Prgrs.:** Mo 21.30, Wed 21.30, Sun 10.00 – **French:** D 11.30–12.00 on 9765 kc.
ANN.: "Aqui Portugal, Emissora Oficial da Provincia de Angola, Luanda" – F: "Ici Luanda Radiodifusion Nationale Portugaise de la Province de L'Angola".

INT.-SIG.:

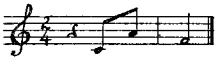
V. by QSL-card. This st. would be very grateful to everyone who would write about sw-reception conditions.


AZORES AND CAP VERDE
AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
INDIAN OCEAN
EUROPE
ASIA
ALGERIA
LIBYA
EGYPT
MOROCCO
TUNISIA
MAURITANIA
FEDERATION OF MALI
NIGER
TCHAD
SUDAN
NIGERIA
CENTRAL AFRICAN REPUBLIC
CAMEROUN
GABON
CONGO
ANGOLA
ZAMBIA
MOZAMBIQUE
RHODESIA AND NYASALAND
BECHUANALAND
SOUTH WEST AFRICA
REP SOUTH AFRICA
SWAZILAND
BASUTOLAND
TANGANYIKA
KENYA
UGANDA
RWANDA
BURUNDI
SOMALIA
ETHIOPIA
FRENCH SOMALI
ERITREA
YEMEN
SAUDI ARABIA
IRAQ
IRAN
JORDAN
SYRIA
TURKEY
LEBANON
ISRAEL
KUWAIT
Persian Gulf
Red Sea
SPANISH SAHARA
Canary Islands
Madeira
Cape Verde Islands
SENEGAL
GAMBIA
GUINEA
PORTUGUESE GUINEA
SIERRA LEONE
LIBERIA
IVORY COAST
GHANA
TOGO
DAHOMEY
UPPER VOLTA
FRENCH CONGO
CAMEROUN
FERNANDO PO
SP. GUINEA
SAO TOME
MADAGASCAR
MALGACHE REPUBLIC
MAURITIUS
SEYCHELLES
REUNION
COMORO
ZANZIBAR
DAR ES SALAAM
MOGADISCIO
ADEN PROTECTORATE
Gulf of Aden
DJIBOUTI
HARGEISA
ADDIS ABBEBA
ASMARA
SANAA
JEDDAH
MECCA
KHARTOUM
MASSAUA
ODESSA
ROSTOV
GURYEV
KRASNODAR
SIMFEROPOL
GROZNY
BATUM
TBILISI
BAKU
EREVAN
ISTANBUL
ANKARA
ATHENS
ROME
MARSEILLE
MADRID
LISBOA
SEVILLA
ALGIERS
TUNIS
TRIPOLI
BENGHAZI
ALEXANDRIA
CAIRO
ASHKHABAD
TABRIZ
MESHED
TEHRAN
ISFAHAN
AHWAZ
BAGHDAD
ALEPPO
DAMASKUS
BEIRUT
NICOSIA
CHANIA
Cyprus
TEL AVIV
JERUSALEM
HAIFA
FAYID
MINIA
ASSIOUT
UNITED ARAB REPUBLIC
TANGIER
TETUAN
ORAN
RABAT
OUJDA
TLEMCEN
CASABLANCA
SEBAA-AYOUN
DAKAR
ST. LOUIS
NOUAKCHOTT
BAMAKO
OUAGADOUGOU
NIAMEY
KADUNA
FORT LAMY
CONAKRY
FREETOWN
MONROVIA
ABIDJAN
ACCRA
COTONOU
LOME
IBADAN
LAGOS
ENUGU
GAROUA
YAOUNDE
DOUALA
BATA
LIBREVILLE
PORT GENTIL
BANGUI
ISABEL
STANLEYVILLE
LEOPOLDVILLE
BRAZZAVILLE
COQUILHATVILLE
CABINDA (Congo Portuguese)
CARMONA
DUNDO
MALANJE
NOVO REDONDO
LOBITO
BIE
BENGUELA
LUSO
SILVA PORTO
NOVA LISBOA
SA DA BANDEIRA
MOCAMEDES
KATANGA
ELIZABETHVILLE
KITWE
LUSAKA
NAMPULA
QUELIMANE
BEIRA
BULAWAYO
SALISBURY
GATOOMA
QUE QUE
GWELO
UMTALI
LOURENCO-MARQUES
PIETERSBURG
PRETORIA
JOHANNESBURG
KIMBERLEY
BLOEMFONTEIN
PIETERMARITZBURG
DURBAN
EAST LONDON
GRAHAMSTOWN
PORT ELISABETH
CAPE TOWN
WINDHOEK
MAFEKING
NAIROBI
KAMPALA
LUANDA
Grand Comore
TANANARIVE
FORT SIBLE
FORT CONSTANTINE
ANGRA
SANTA MARIA
SAO MIGUEL
Azores
PONTA DELGADA
FUNCHAL
Madeira
SICRUZ
LAS PALMAS
Canary Islands
SPANISH SAHARA
MAURITANIA
Cape Verde Islands
SAO VICENTE
ST. LOUIS
DAKAR
SENEGAL
PRAIA
SANTIAGO
PORTUGUESE GUINEA
BISSAU
GUINEA
CONAKRY
FREETOWN
SIERRA LEONE
GAMBIA

Angola

RADIO CLUBE DE ANGOLA (Comm.)
ADDR.: C.P. 229, Luanda – **Cable**: Radangola – **Te.**: 3448.
L.P.: Pres.: Com. M. de Albuquerque e Castro. Dir. Prgr.: A. M. da Costa. Dir. Tec.: Eng. A. Palmeiro.
STATIONS: CR6 - -: RN 4869 kc 61.60 m 1 kW – RA 7140 kc 42.02 m 0.5 kW – RL 9630 kc 31.15 m 1 kW.
HOME SCE. in Portuguese: W 06.00–08.00, 11.00–14.00, 16.00–21.00. Sun 08.00–20.00 – **N.**: 06.30, 11.50, 18.30, 20.50 – **Mbg.**: Sun 08.20.
Request Prgr.: D 13.15, 17.00 – **Wrp.**: D 12.00, 18.40.
ANN.: "Angola, Província Portuguese de Africa, De Luanda transmite Radio Clube de Angola, a vossa estaçao...".
INT.-SIG.:

INT.-SIG.:



V. by QSL-card and by radio (Sun 08.20) – **F.PL.**: Mw in 1963 – **PUB.**: Prgr. schedule on request.

RADIO CLUBE DE BENGUELA (Comm.)
FI.: By adv. and small Go.-subsidies.
ADDR.: C.P. 19, Benguela. **Cable**: Radio Clube. **Te.**: 117.
L.P.: Pres. J. dos Santos Ferro. Chief Prod.: A. Freire.
STATIONS (System: Philips): Call CR6 – –.
RF 5052 kc 59.38 m 1 kW – RB 9505 kc 31.56 m 1 kW.
HOME SCE. in Portuguese: W 05.45–07.30, 11.00–13.30, 17.00 (Sat 16.00)–22.00. Sun 09.30–14.00, 16.00–22.00.
N.: W 06.30, 11.30, 18.30, 21.45, Sun 12.30, 18.30 – **Wrp.**: after N. 11.30, 18.30.
ANN.: "Radio Clube de Benguela, Angola, Provincia Portuguesa de Africa". "Da cidade de S. Filipe transmite a Emissora de Benguela, Angola – Provincia Portuguesa de Africa". "Esta é a Voz de Benguela a irradiar de Angola – Província Portuguesa de Africa" .
INT.-SIG.: Solo on Kissange, a native instrument – V. by QSL-card or letter. Re. in E, P – **F.PL.**: 1 kW mw-tr, FM, a second prgr. – **PUB.**: Prgr. sched. (yearly).

RADIO CLUBE DO BIÉ (Comm.)
ADDR.: C.P. 33, Silva Porto – **L.P.**: Pres.: T. J. dos Reis Ramos. Prod. Mgr.: A. J. Santos Ferrao. Dir. Tec.: C. Novo.
STATION: CR6RO 7105 kc 42.22 m 1 kW.
HOME SCE.: W 06.45–07.45, 12.00–13.30, 18.00–22.00, Sun 08.00–10.00, 12.00–15.00, 15.30–22.00.
ANN.: "Radio Clube de Bié" – **INT.-SIG.**: Guitar – V. by QSL-card.

RADIO CLUBE DE CABINDA (Comm.)
FI.: By payments from members, adv. and Go. subsidies – **ADDR.**: C.P. 116, Cabinda. **Cable**: Radio Clube de Cabinda. **Te.**: 116.
L.P.: Vice Pres.: M. M. H. Serrano. Secr.: V. B. Mendes.
STATION: CR6RW 5033 kc 59.59 m 1 kW.
HOME SCE.: W 11.00–13.00, 17.30–21.00. Sun 09.30–13.00, 17.00–20.30. **N.**: 08.00, 10.00.
ANN.: "Aqui Cabinda, Angola, Província Portuguesa d'Africa Transmite o Rádio Clube de Cabinda" – **INT.-SIG.**: Gong – V. by QSL-card or letter.

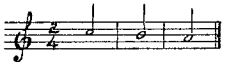
RADIO CLUBE DE CONGO PORTUGUÊS (Comm.)
FI.: By state and adv. – **ADDR.**: C.P. 140, Carmona. **Cable**: Radio-clube – **Te.**: 26 – **L.P.**: Pres.: J. L. Mourão de Mello.
STATION: CR6RU 6135 kc 48.90 m 1 kW.
HOME SCE.: W 06.00–07.30, 11.00–13.00, 18.00–21.30. Sun 08.00–10.00, 12.00–17.00 – **N.**: 06.30, 12.00, 19.00.
ANN.: "R. Clube do Congo Portugues, em Angola, Província Portuguesa d'Africa" – **INT.-SIG.**: March: "Angola e nossa" – V. by letter.

RADIO DIAMANG (Priv.)
FI.: By "Comp. de Diamantes de Angola" – **ADDR.**: R. Diamang, Dundo, Lunda. **Cable**: Diamang, Portugalia – **L.P.**: Dir. Gen.: J. Bexiga.
STATIONS: Call CR6 – – 1 kW – RG 4770 kc 62.89 m – RI 9612 kc 31.21 m.
HOME SCE.: W 18.00–19.30. Sun 11.00–12.30.
R. Diamang is a private st. which aims only to entertain the Diamang employees who work in the mining fields of Lunda. The prgr's are varied and consist only of classic, light and native music. **ANN.**: "Aqui Dundo, Angola, Província Portuguesa de África, R.Diamang, Estação Emissora da Companhia de Diamantes de Angola".**INT.-SIG.**: At opening "marimba" solo (native instrument of percussion similar to the zylophone) – V. by QSL-card. Re. in P., E. or F.

RADIO CLUBE DO HUAMBO (Comm.)
FI.: By adv. and small Go-subsidies – **AD.**: W 06.05–06.50, 11.05–12.55, 14.30–21.15.
ADDR.: C.P. 125 Nova Lisboa. **Cable**: Radihuambo. **Te.**: 41 –**L.P.**: Dir. Gen.: N. D. Ribeiro. Mgr.: S. Coelho. Dir. Tec.: M. Santos.
STATIONS (System: RCA, Philips, TRT): CR6RD.

kc	m	kW	kc	m	kW	kc	m	kW	kc	m	kW
1500	200.0	0.5	4800	62.50	1	7160	41.89	1	9665	31.04	1
3704	80.99	1	5060	59.29	1	7280	41.21	1	11925	25.03	1

FM: 97 Mc, 105 Mc.
HOME SCE. in Portuguese, Umbundo: 06.00–07.00, 11.00–13.00, 14.30–22.30; on 3704 kc 17.00–21.30 only.
N. in Portuguese: 06.05, 11.30, 15.30, 17.00, 19.00, 21.20 on 1500/5060/7160/9665/11925 kc – **Wrp.**: 11.40, 19.00, 21.27 on 1500/9665 kc – **T.S.**: 06.00, 11.00, 11.30, 13.00, 16.30, 19.00 on 1500/5060/7160 kc – **Mbg.**: Wed, Sat 06.15–06.40 on 1500/5060/7160 kc.
Umbundo (native language): 17.00–18.00 on 3704 kc – **N.**: 17.10. **Mbg.**: Thurs, Fri 17.30. **L.L.** (Portuguese/Umbundo): Mo, Wed 17.45.
ANN.: **P.**: "Aqui Nova Lisboa, R. Clube do Huambo, Uma Voz Portuguesa em Africa". "This is the R. Club of Huambo, Nova Lisboa, a guesa em Africa". **Umbundo**: "Kulo Ko Nova Lisboa ko R. Clube yo Huambo. Ocipama cetu ca Cruzeiro do Sul".
INT.-SIG.: Gong.



V. by QSL-card – **F.PL.**: 1 kW mw-tr. (Dec.62), one 10 kW mw and two 10 kW sw-tr's at the end of 1963 – **PUB.**: Prgr. schedules.

RADIO CLUBE DE HUILA (Comm.)
FI.: By state and adv. – **ADDR.**: C.P. 111, Sá da Bandeira. **Cable**: Radioclube. **Te.**: 92 – **L.P.**: Pres:. Dr. E. Fernandes. Dir. Tec.: J. Guimarães.
STATIONS: CR6 – –, 1 kW:
SG 3970 kc 75.57 m – RH 5024 kc 59.71 m – SG 9675 kc 31.01 m.
HOME SCE.: W 06.45–08.30, 12.00–14.00, 17.30–22.30, Sun 08.30–15.00, 17.30–22.00.
ANN : "R. Clube da Huila em Sá da Bandeira, Angola, Província de Portugal em Africa" – **INT -SIG** : First movements from "Bailinho da Madeira" – V by QSL-card – **F.PL** : 1 kW mw-tr.

RADIO CLUBE DE MALANJE (Comm)
FI.: By adv. and small Go-subsidies – **ADDR.**: C.P. 83, Malanje. **Te.**: 30 – **L.P.**: Pres.: A. F. Martins. Dir. Prgr.: J. Berenguel.
STATIONS: CR6RE: 1 kW.
3960 kc 75.76 m 5955 kc 50.38 m 9605 kc 31.23 m
5033 – 59.61 – 7240 – 41.44 –
HOME SCE.: W 05.00–08.00, 11.00–13.30, 17.00–21.30. Sun 06.00–09.00, 11.00–20.00. **N.**: 06.30, 11.50, 19.00.
ANN.: "Aqui Portugal transmite o R. Clube de Malanje, em Angola Província Portuguesa de Africa" – **INT.**: Scme movements from "Reida Festa" on guitar – V. by QSL-card – **F.PL.**: Mw-st.

RADIO CLUBE DE MOÇAMEDES (Comm.)
FI.: By state and adv. – **ADDR.**: C.P. 174, Moçâmedes. **Cable**: Rádio-clube. **Te.**: 36 – **L.P.**: Pres.: R. Radich Junior. **Prod. Mgr.**: C. Martinho. Dir. Tec.: L. Sena.
STATIONS: CR6RM
5015 kc 59.82 m 1 kW – 7230 kc 41.49 m 0.35 kW – 9515 kc 31.53 m 1 kW.
HOME SCE.: W 06.00–07.30, 11.00–13.30, 17.00–21.00. Sun 10.00–14.00, 16.00–21.00.
N.: 06.30, 12.00, 19.00, 20.50 – **Actualities from Angola**: Sun 12.00, 19.00. – **Portuguese Music**: 06.05, 11.05, 18.05. – **ANN.**: "Aqui Portugal! Transmite o R. Clube de Moçâmedes, em Angola, Provincia Portuguesa de Africa". – **INT.-SIG.**: At opening "Monumental", folklore music piece played on accordion. – V. by QSL-card.

RADIO CLUBE DO MOXICO (Comm.)
FI.: By state and adv.– **ADDR.**: C.P. 74, Luso – **Cable**: Radioclube.
L.P.: Pres.: M. Simões. Prod. Mgr.: A. Caratão. Dir. Tec.: N. S. de Oliveira.
STATION: CR6RV 5137 kc 58.40 m 1 kW.
HOME SERVICE: W 05.30–07.00, 11.00–12.30, 17.30–21.00. Sun 10.00–13.00, 16.30–21.00 – **N.**: 06.40 (W), 11.30, 19.00, 20.50.
ANN.: "R. Clube do Moxico, em Luso, Angola, Provincia Portuguêsa em África" – **INT.-SIG.**: Gong – V.. by letter.

RADIO CLUBE DO CUANZA SUL (Comm.)
FI.: By state and adv. – **AD.**: 30 min. per broadc. period on weekdays.
ADDR.: C.P. 10, Novo Redondo – **L.P.**: Pres.: N. Gil Pires.
STATIONS: CR6RY – 4788 kc 62.68 m 2 kW – CR6RP 7285 kc 41.18 m 0.2 kW.
HOME SERVICE: W 07.00–09.00, 11.00–13.00, 17.30–21.00. Sun 06.00–10.00, 11.00–14.00, 17.30–19.30 – **N.**: in **Portuguese**: 12.00, 19.30.
ANN.: "R. Clube do Cuanza Sul, Angola, Provincia Portuguêsa d'África" – **INT.-SIG.**: National Hymn and guitar – V. by QSL-card.

RADIO CLUBE DO SUL DE ANGOLA (Comm.)
ADDR.: C.P. 56, Lobito. **Te.:** 62 – **L.P.:** Pres.: Capt. F. A. Aldeia Secr.: A. de Carvalho.
STATIONS: CR6RS (Systems: RCA, TEMCO).
1110 kc 270.0 m 0.25 kW – 4905 kc 61.16 m 1 kW – 7175 kc 41.81 m 1 kW.
HOME SCE.: W 06.00–07.30, 11.00–13.00, 17.00–22.00. Sun 08.00–13.00, 14.30–20.00 – **INT.-SIG.:** 4 notes on guitar from "Maria da Fonte".

RADIO ECCLESIA (Catholic)
FI.: By gifts, comm. adv. and state – **ADDR.:** C.P. 156, Luanda. **Cable:** "Ecclésia" – **Te.:** 2302.
L.P.: Dir. Gen.: J. Maria Pereira. Dir. Tec.: A. Vieira da Costa.
STATIONS: CR6RB: 1010 kc 297.0 m 1 kW – 11755 kc 25.52 m 1 kW.
HOME SCE.: W 05.30–07.00, 09.00–13.00, 14.00–15.30, 17.30–21.00. Sun 07.00–09.30, 11.00–18.00 – **N.:** W 06.00, 10.15, 12.00, 19.00.
ANN.: "Aqui Portugal, Rádio Ecclésia, Emissora Católica de Angola, em Luanda" – **INT.-SIG.:** Music from "A Trezo de Maio" – **V.** by QSL-card.

BECHUANALAND (British Protectorate)

L.T.: GMT+2 h – **Pr.L.:** English.
RADIO STATION ZNB (Go.)
ADDR.: Box 252, Mafeking – **L.P.:** St. Dir.: W. Coombes. Technicians: P. Nel, K. Crawford.
STATION: 5900 kc 50.84 m 1 kW.
HOME SCE.: W 11.00–12.00, 17.00–19.30. Sun 18.00–19.30.
N.: 11.15, 17.15 (rel. SABC).
ANN.: "This is ZNB at Mafeking" – **INT.-SIG.:** ZNB in morse before transmission announcements – **V.** by letter – No QSL unless details given. Rp – **F.PL.:** Tr. at Lobatsi.

BURUNDI (Kingdom)

L.T.: GMT+2 h – **Pr.L.:** Kirundi, Kiswahili.
RADIO BURUNDI (Go.)
ADDR.: B.P. 1900, Usumbura. **Te.:** 2236. **Cable:** Inforburundi.
L.P.: Dir. of Inf.: G. Bimazubute. Dir. Tec.: De Schrijver.
STATION: 6195 kc 48.43 m 10 kW.
HOME SCE. in French, Kirundi, Kiswahili: 04.30–05.30, 10.00–11.30, 16.00–17.00, 18.00–20.45.
N. in French: 10.15, 18.00 (relayed by R. Rwanda).

ANN.: F.: "Ici Usumbura, station de radiodiffusion nationale du Burundi, émettant dans la bande des 48 mètres, soit 6195 kc" – Kirundi: "Hano ni Radio Burundi, ivugira i Bijumbura ku murongo wa metero 48 n'ukuvuga kc 6195".

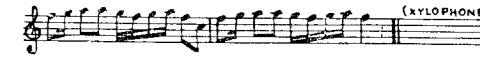
INT.-SIG.: A Rundi (Umuduli) vocal bow: This is an ordinary bow that is stretched over the tendon of an ox, fitted with a calabash bowl instead of a resonance box. This instrument produces a monotonous, rhythmical tone consisting of two characteristic sounds – **V.** by QSL-card – **PUB.:** "Infor-Burundi" fortnightly bulletin in French free of charge on request to B.P. 1400, Usumbura.

CAMEROON (Republic)

L.T.: GMT+1 h – **Pr.L.:** French, Vernaculars.
RADIO YAOUNDE (R. Cameroon I) (Go.)
ADDR.: B.P. 281, Yaounde. **Cable:** Radiodiffusion. **Te.:** 3719.
L.P.: Dir. Cameroon Broadc.: M. A. Moutongo Black.
STATIONS: m.w. 1 kW, s.w. 30 kW:
1286 kc 233 m – 4972.5 kc 60.33 m – 7205 kc 41.64 m

HOME SCE. in French, Vernaculars: W 05.15–07.30 on 1286/4972.5 kc, 11.15–13.00 on 1286/7205 kc, 16.30–22.30 on 1286/4972.5 kc. Sat 05.15–07.30 on 1286/4972.5 kc, 11.15–16.30 on 1286/7205 kc, 16.30–22.30 on 1286/4972.5 kc. Sun 05.00–07.30 on 1286/4972.5 kc, 07.30–16.30 on 1286/7205 kc, 16.30–22.30 on 1286/4972.5 kc.
N.: W 06.15, 12.00 (Sat 12.15), 17.30, 18.30, 21.00. Sun 06.30, 07.50, 12.00, 17.30, 18.30, 21.00.
ANN.: "Ici Yaoundé, Poste National de Radiodiffusion du Cameroun" – **INT.-SIG.:** Local music or Tam-Tam rhytm – **V.** by QSL-card or letter. Rp. Re. in E, F.

RADIO DOUALA (R. Cameroon II) (Go.)
ADDR.: B.P. 986, Douala. **Cable:** Radio Douala. **Te.:** 4575.
L.P.: Dir.: F. Mouasso-Priso. Dir. Tec.: S. M. Poual.
STATIONS: 1 kW: 1448 kc 207.2 m – 6115 kc 49.06 m
HOME SERVICE in French, Douala, Bassa, Bamileke, Yaoundé: W 05.15–07.00, 11.15–13.00, 17.00(Sat 15.00)–21.00. Sun 07.00–21.00.
N. in French (rel. Yaounde): 06.15(W), 12.00(Mo–Fri), 12.15(Sat, Sun), 18.30. **Local N.:** W 06.30, 19.00. Sun 19.00.
ANN.: F.: "Ici Douala, Radiodiffusion du Cameroun" – **INT.-SIG.:** At opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancêtres" fanfare.



V. by QSL-card or letter. Rp. – **PUB :** Prgr.sched. (weekly).

R. GAROUA (R. Cameroon III) (Go.)
ADDR.: B.P. 103, Garoua. **Te.:** 012 – **L P :** Dir. G. Derrier.
STATIONS: m.w. 1 kW, s.w. 4 kW:
1348 kc 224.0 m – 5010 kc 59.88 m – 7240 kc 41.44 m

HOME SERVICE in French, Haoussa, Foulfouldé: W 11.15–13.15 (Fri 13.45) on 1348/7240 kc, 17.30 (Thurs, Sat 17.00)–21.00 on 1348/5010 kc. Sun 07.00–13.15 on 1348/7240 kc, 17.00–21.30 on 1348/7240 kc. **N. in French:** 12.00 (Sat 12.15), 19.30.

ANN.: "Ici Garoua, Radiodiffusion du Cameroun" – **INT.-SIG.:** Flute & tam-tam – **V.** by QSL-card.

CANARY ISLANDS (Spanish)

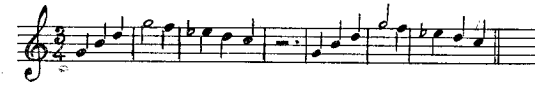
L.T.: GMT – **Pr.L.:** Spanish, English.
RADIO LAS PALMAS (Comm.)
AD.: 10 min. per h – **ADDR.:** Calle Triana 134, Dpdo., Las Palmas. **Cable:** Radio Las Palmas. **Te.:** 20357 – **L.P.:** Dir. P. Pastor S.
STATION: EAJ50 1313 kc 228.5 m 1 kW

HOME SCE.: D 09.00–24.00 – **N.:** 09.15, 13.30, 14.15 (local), 21.00. **Wrp.:** 09.30, 13.05, 21.15 – **T.S.:** 12.00, 22.00 – **Mbg.:** 10.30.
ANN.: "Transmite E.A.J. 50 Radio Las Palmas" – **INT.-SIG.:** Pasodoble "Islas Canarias" – **V.** by QSL-card – **F.PL.:** FM in 1963.

RADIO ATLANTICO (Comm.)
ADDR.: Calle General Franco 50, Las Palmas – **Cable:** Radio Atlantico. **Te.:** 21083.
L.P.: Dir.: Jose A. Gutierrez Peña. Dir. Tec.: J. Q. Bautista.

STATIONS (System: RCA, Philco):
1484 kc 202.2 m 5 kW – 7000 kc 42.86 m 1 kW
9400 – 31.92 – 5 – – FM: 93.9 Mc 5 kW

HOME SCE. in Spanish: On 1484 kc D 08.00–24.00 – **N.:** 08.15, 08.45, 13.30*, 14.00, 20.00, 21.00* (relay R. Nacional) – **T.S.:** 08.00, 24.00.
ANN.: Sp.: "Transmite Radio Atlantico, E.C.S. no. 4, Emisora Sindical de las Palmas de Gran Canaria Islas Canarias" – **INT.-SIG.:** Canary guitar-chords – **V.** by QSL-card or letter.



RADIO CLUB TENERIFE (Cultural, Comm.)
ADDR.: Apt. de Correos 225, Cruz de Tenerife – **L.P.:** Pres.: F. A. Acuña Dorta. Secr.: J. Siliuto Mendez.

STATIONS:
EAJ43 1412 kc 212.4 m 0.4 kW: 09.00–24.00.
EAJ8AB 7295 – 41.12 – 0.4 – : 21.00–23.00.

ANN.: "R. Club Tenerife, en Santa Cruz de Tenerife, Islas Canaris – **INT.-SIG.:** Opening "Los Voluntarios", from 17.00 "Islas Canarias" (pasodoble) – **V.** by QSL-card.

RADIO JUVENTUD DE CANARIAS (C.A.R.).
ADDR.: Castillo 27, Santa Cruz de Tenerife.
STATION: EFJ57 1248 kc 240 m 1.2 kW.

HOME SCE.: 08.00–09.00, 12.00–16.00, 17.50–24.00.
ANN.: "Radio Juventud de Canarias".
INT.-SIG.: The first notes from "Arroro canario".

LA VOZ DE LA ISLA DE LA PALMA
ADDR.: Emisora Sindical, Santa Cruz de la Palma. **Te.:** 862. **Cable:** Emisora – **L.P.:** Dir.: M. Fernández de las Casas.
STATION: 7385 kc 40.62 m 0.35 kW

HOME SCE. in Spanish: W 09.00–11.00, 12.00–16.00, 19.00–23.00. Sun 09.00–16.00, 19.00–23.00 – **N.:** 09.10, 12.10, 13.30*, 14.15, 21.00*. (*=relay R.N.E.) – **V.** by letter.

CAPE VERDE ISLANDS (Portuguese)

L.T.: GMT÷2 h – **Pr. L.:** Portuguese, English.
RADIO CLUBE DE CABO VERDE (Pr)
ADDR : C.P. 26, Praia.
STATION: CR4AA 3960 kc 75.76 m 5 kW: 20.00–22.00.
ANN.: "Aqui Praia, estação de ondas curtas do R. Clube de Cabo Verde" – **INT.-SIG.:** Four notes on marimba – **V.** by QSL-card.

RADIO CLUBE MINDELO (Pr.)
FI.: By state, adv. and private help – ADDR.: C.P. 101, S. Vicente
L.P.: Pres.: A. Feijóo Pereira. Dir. Tec.: J. de Azevedo.
STATION: CR4AB 4755 kc 63.09 m 0.15 kW.
HOME SCE.: 20.00–22.00. N.: 21.00.
ANN.: "Aqui S. Vicente de Cabo-Verde, Provincia Ultramarina de Portugal, Fala-vos a Estaçao Emissora do Rádio Clube Mindelo, no comprimento de onda de..." – V by QSL-card or letter – F PL : Two sw.-st.'s (1 and 0.25 kW).

R. BARLAVENTO (Local club, non-comm.)
ADDR.: C.P. 29, S. Vicente – L.P.: Dir. Gen.: D. Graciano Cohen.
STATION: CR4AC 3960 kc 75.76 m 1 kW:.
HOME SCE.: W 14.30–15.30, 22.00–24.00. Sun 15.00–17.00, 22.00–24.00 – V. by QSL-card.

CENTRAL AFRICAN REPUBLIC

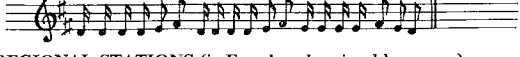
L.T.: GMT+1 h – Pr.L.: French, Sango.
RADIO BANGUI (Go.)
FI.: By the French and Central African State – ADDR.: B.P. 940, Bangui. Te.: 2357 – L.P.: Dir.: P. Pouillon. Dir. Tec.: M. Mercier.
STATIONS: m.w. 0.25 kW, s.w. 30 kW:
1570 kc 190 m – 5035 kc 59.58 m – 7220 kc 41.55 m
HOME SERVICE in French & Vernaculars:
W 04.30–06.30 on 1570/5035 kc, 11.00–12.30 (Sat 16.30) on 1570/7220 kc, 16.30–21.00 (Sat 22.15) on 1570/5035 kc. Sun 06.00–11.00 on 1570/5035 kc, 11.00–16.30 on 1570/7220 kc, 16.30–21.00 on 1570/5035 kc.
N. in French: W 05.00, 06.00, 11.35, 18.30, 20.50. Sun 08.00, 11.30, 17.30, 20.50 – Sango: W 05.30, 17.15. Sun 08.15, 17.15.
ANN.: "Ici Bangui Radiodiffusion Centrafricaine" – INT.-SIG.: First seven bars of Central African's hymn, played on the Zanza (a local instrument) – V. by QSL-card. Re. in French.

COMORES ISLANDS (French)

L.T.: GMT+3 h – Pr.L.: French, Vernaculars.
RADIODIFFUSION TELEVISION FRANÇAISE (Go.)
ADDR.: B.P. 29 Dzaoudzi, Ile Mayotte, Comores. Te.: 25.
L.P.: Dir. Gen.: Seignot.
STATIONS: 3331 kc 90.06 m – 7260 kc 41.32 m 4 kW.
HOME SCE. in French, Comorian: On 3331 kc: 03.30–05.00, 09.15–10.30, 15.30–18.30 – N.: French: 04.00, 09.30, 17.00. Comorian: 16.15 – Wrp.: 09.30 – T.S.: 04.00, 09.30, 17.00.
ANN.: "Ici les Comores – Radiodiffusion-Télévision-Française – station de Dzaoudzi" – INT.-SIG.: Folklore Music – V. by letter. Rp.

CONGO (Republic)

L.T.: Leopoldville, Coquilhatville: GMT+1 h. Elisabethville, Stanleyville, Bukavu, Luluabourg: GMT+2 h – Pr.L.: French, Lingala, Kikongo, Tshiluba, Kiswahili.
RADIODIFUSION CONGOLAISE (Go.)
ADDR.: Nat. Sce.: B.P. 3171, Int. Sce.: B.P. 7699, Leópoldville. Cable: Radio Congolaise. Te.: 3171.
L.P.: Vice Dir.: A. Luseko. Dir. Tec.: J. Mavungu.
NATIONAL PROGRAMME: (Léopoldville): In French:
9700 kc 30.93 m 50 kW / 15450 – 19.42 – 50 – : 04.00–07.00, 10.30–13.00 (Sat 10.00–15.00, Sun 09.30–15.00), 15.30–21.00 (Sat/Sun 22.00)
11795 – 25.43 – 50 – : 10.30–13.00 (Sat 10.00–15.00, Sun 09.30–15.00)
N. in French: 05.30, 10.30, 11.30, 18.30, 20.30.
In Lingala-Kikongo: 7317 kc 41.00 m 10 kW: 15.30–21.00 (Sat/Sun 22.00). In Tshiluba-Swahili: 11795 kc 25.43 m 50 kW: 15.00–20.00.
FOREIGN PRGR. on 11755 kc 25.52 m 50 kW:
21.00–24.00 to Af/Eu/As/Oceania, 01.00–04.00 to We Hemisphere.
N.: English: 21.30, 02.00, 03.30. French: 22.30, 02.45. German: 22.00. Portuguese: 23.00, 01.30. Swahili: 23.30.
ANN.: F.: "Ici Léopoldville, Radiodiffusion Congolaise, Poste Mondial" – INT.-SIG.: Tam Tam (native zylophone beat) – V. by QSL-card



REGIONAL STATIONS (in French and regional languages).
R. Leopoldville: L.P. Dir. C. Matshiaba.
4880 kc 61.48 m 7.5 kW: 11.00–13.00, 16.00–20.30.
R. Coquilhatville:
ADDR.: B.P. 1061, Coquilhatville – L.P.: Dir. A. Nzondomyo.
5993 kc 50.05 m 10 kW: 04.30–06.30, 13.00–14.30 (Sat 11.00–14.30. Sun 09.00–14.30), 15.00–20.00.
R. Bukavu: ADDR.: B.P. 475, Bukavu – L.P.: Dir. B. Mbula.
4839 kc 61.99 m 10 kW: 04.00–06.00, 10.00–12.00, 15.00–20.00 (Sat/Sun 22.00).
R. Elisabethville: ADDR.: B.P. 1038, Elisabethville.
5933 kc 50.55 m 10 kW \ 04.00–06.30, 10.00–12.30, 15.00.
7156 – 41.92 – 20 – / 21.00 (Sat/Sun 22.00).
R. Luluabourg: L.P.: Dir. L. Wanya.
6125 kc 48.98 m 10 kW: 15.30–19.30.
R. Stanleyville: ADDR.: B.P. 1745, Stanleyville – L.P.: Dir. G. Lamazani.
6085 kc 49.30 m 10 kW: 04.00–06.00, 10.00–13.00, 15.30–20.00.

PROVINCE OF KATANGA
RADIO KATANGA (Go.)
ADDR.: B.P. 7296, Elisabethville.
STATIONS: 5933 kc 50.55 m – 7150 kc 41.96 m – 11875 kc 25.26 m
D. PRGR's in French, Kiswahili, Lingala, Kikongo, English, Portuguese: 04.45–07.30, 10.00–13.00, 16.00–21.00.
N.: English: 06.30, 20.15. French: 05.00, 06.00, 11.00, 12.00, 18.00, 20.00.

UNITED NATIONS ORGANIZATION IN THE CONGO
ADDR.: B.P. 307 B, Elisabethville. Cable: ONUC.
L.P.: Inf. Officer: C. H. Dovaz.
STATIONS: 5060 kc 59.29 m – 11870 kc 25.27 m: 0.25 kW.

RADIO COLLEGE (Priv.-Rel.)
ADDR.: B.P. 296, Elisabethville – STATIONS: OQ2AC 0.25 kW: 3390 kc 88.50 m – 5200 kc 57.69 m – 7200 kc 41.67 m – FM: 96 Mc 0.05 kW.
HOME SCE. in French, Kiswahili: Sun 07.00–10.00, D 16.00–19.30.

CONGO (Franco-African Community)

L.T.: GMT+1 h – Pr. L.: French, English, Portuguese.
RADIO BRAZZAVILLE
ADDR.: B.P. 108, Brazzaville – Cable: Radiodiffusion. Te.: 2234.
L.P.: Dir. Gen.: C. Boissiere. Dir. Adm.: A. Taillade. Dir. Tec.: H. Defroyenne. Dir. Inf.: R. Branellec. Dir. Prgr.: M. Dumont.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
5970	50.25	1.5	9770	30.70	7/50	15190	19.75	50
7105	42.22	5	11710	25.62	7/50	15445	19.43	50
9545	31.43	50	11725	25.58	7/50	17720	16.93	50/1.5
9730	30.83	7	11970	25.06	7	21500	13.90	50/1.5

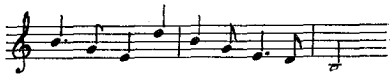
INTERNATIONAL SERVICE
I=Af (No. & So.); II=No. Am; III=Madagascar; IV=We. Af; V=Au; VI=M. East; VII=F. East; VIII=So. Am.

Times	kc	Areas	News
04.30–07.30	15445	I/III	F.: 04.30, 05.00, 06.00, 07.00
	11725	I/III	
	9730, 7105	II/IV/I	
	5970	–	E.: 05.15
	17720	III/IV/I	
08.30–09.15	15445, 21500	III/IV/I	F.: 09.00, E.: 08.30
11.00–12.30	11710, 7105	I	F.: 11.30
	21500	I	
12.30–13.00	11710, 15445	I/IV	F.: 12.45
	21500, 7105	–	
10.00–12.30	15445	IV/VI	E.: 10.00, 11.00, 12.00
	11970	I	P.: 10.40, 11.40
13.30–15.20	17720, 21500	VII	F.: 13.30, 15.00
			E.: 14.30 (W)
16.00–18.25	11725, 9770	III/IV	F.: 16.00 (W), 17.30, 18.00
	7105		E.: 17.15
	5970, 21500	I	
18.30–19.00	9545, 9770	I/IV	P.: 18.45
	7105, 5970		
	21500		
19.00–20.00	15190	I/IV	E.: 19.30
19.00–22.50	9545, 9770	I/IV	F.: 10.90, 20.30, 22.30
	7105, 5970		
20.30–22.50	15190	IV	
23.15–00.15	9730	VII	F.: 23.30
23.15–02.00	11725	II	E.: 01.15

Additional Prgr's (Sun only): 09.15–10.55 on 7105, 11710, 21500 kc; 13.45–17.00 "Sport & Music" (relay Paris) on 7105, 9545, 9770 kc (from 14.00 also on 17720, 21500 kc).
ANN.: F : "Ici Radio Brazzaville" E.: "This is Radio Brazzaville broadcasting from the Congo". P.: "Aqui Radio Brazzaville, Brazzaville".
INT-SIG : Five different notes played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box – V. by QSL-card or letter. Rp. – PUB.: Prgr. sched. free upon request.

RADIO CONGO (Go.)
ADDR.: B.P. 2241, Brazzaville – **Cable:** RadioCongo – **Te.:** 2408.
L.P.: Dir.: Malonga. Dir. Tec.: Bitran.
STATIONS (System: TRT, Thomson-Houston):
1484 kc 202.2 m 4 kW – 9600 kc 31.25 m 25 kW – 4843 kc 61.95 m 25 kW – 9715 kc 30.88 m 50 kW – 7175 kc 48.84 m 4 kW.

HOME SERVICE in French, Lingala, Munukutuba: W 04.30–06.00, 11.30–13.00, 16.00–21.00 (Sat 22.00) Sun 07.00–21.00.
1484 kc: as above; 4843 kc: W 04.30–06.00, 16.00–21.00 (Sat 22.00) Sun 17.00–21.00; 7175/9600 kc: W 11.30–13.00, Sun 07.00–17.00, 9715 kc: Sun 17.00–19.00 – **N.: French:** W 05.15, 12.00, 17.00, 18.30 Sun 12.00, 17.15, 18.30. **Lingala:** 18.10. **Munukutuba:** 18.20 – **Wrp.:** 19.00 – **Mbg.:** 11.30 – **L.L.:** "Le Français par la Radio": Mo, Wed 16.00, Tues 05.45, Fri 05.30.
ANN.: "Ici Brazzaville, Station Nationale Congolaise" – **INT.-SIG.:** Zanzi solo (native instrument).



V. by letter. Rp. – **PUB.:** Prgr. schedule (weekly).

DAHOMEY (Republic)

L.T.: GMT+1 h – **Pr. L.:** French, Vernaculars.
RADIO DAHOMEY (Go.)
FI.: By Go. and OCORA – **ADDR.:** Radiodiffusion du Dahomey, B.P. 366, Cotonou. **Cable:** Radiodahomey. **Te.:** 402 – **L.P.:** Dir. Gen.: H. da Piedade. Dir. Tec.: V. Comlan. Dir. Inf.: J. Vieyra.
STATIONS: 1475 kc 203.4 m 1 kW – 4875 kc 63.60 m 30 kW.
HOME SERVICE: French, Fon, Yoruba, Dendi, Bariba, Mina: Mo-Fri: 05.15–06.45, 11.15–12.15, 17.00–20.15, 21.15–22.00 (20.15–21.15 French: on 1475 kc. Vernacular: on 4875 kc). Sat: 05.15–06.45, 12.00–23.00. Sun: 07.00–22.00.
N.: French: 05.30 (W), 06.15 (W), 08.00 (Sun), 11.40 (exc. Sat), 12.40 (Sat), 12.55 (Mo-Fri), 17.00 (W), 19.00, 21.15 (W), 22.45 (Sat) – **Vernaculars:** Mo-Fri: 17.05–18.05.
L.L.: English: W 06.00–06.15, Mo-Fri 12.05–12.20 – **Mbg.:** Mo 19.30 (Le Coin des Curieux), Sat 15.00, Sun 12.00 – **Wrp.:** D 18.50.
ANN.: "Ici Cotonou, Radiodiffusion du Dahomey émettant sur...".
INT.-SIG.: Dahomey Tam-Tam – V. by QSL-card. Rp. – **F.PL.:** New st. at Parakon. TV – **PUB.:** Prgr. schedule (weekly).

EGYPT (United Arab Rep.)

L.T.: GMT+2 h (Su. 1/5–30/9 GMT+3 h) – **Pr.L.:** Arabic.
U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)
FI.: By state subsidy and adv – **AD.:** allowed in Popular-Cultural Prgr.
ADDR.: Offices & Studio Centre I: 4, Sherifein Str., Cairo – Studio Centre II: 5, Elwi Str., Cairo. **Cable:** "Kahiradio" – **L.P.:** Dir. Gen.: M. A. Hammad. Dir. Egyptian Establishment for Radio & TV: S. Amer. Dir. Prgr.: A. H. El-Hadidi. Dir. TV: A. H. Younes. Dir. Adm.: M. M. Taifour. Dir. of Running: E. Fouad. Gen. Controller of Research, International Relations: M. El-Bassiouni. Dir. Planning, Transmitting: A. Kandeel.
STATIONS: Medium Waves.

	kc	m	kW		kc	m	kW
Cairo III	557	538.6	50	Assiout	980	306.1	2
Cairo IV	620	483.9	300	Minia	1079	278.0	2
Cairo II	665	451.1	100	Luxor	1079	278.0	2
Cairo I	773	388.1	50	Sohag	1142	262.2	2
Cairo V	818	366.7	300	Asswan	1178	254.7	2
Cairo VI	926	324.0	10	Alexandria	1277	234.9	2

Short Waves: 50/70/90/100 kW.

kc	m	kc	m	kc	m	kc	m	kc	m
6080	49.34	9630	31.15	11915	25.18	15350	19.54	17760	16.89
7050	42.55	9715	30.88	11930	25.15	15430	19.44	17785	16.87
7075	42.40	9750	30.77	11940	25.13	15475	19.38	17875	16.79
7140	42.02	9755	30.76	12050	24.9	17690	16.96	17905	16.75
7180	41.78	9780	30.68	15115	19.85	17730	16.92	17920	16.74
9495	31.60	11745	25.54	15210	19.72				

HOME SERVICE

MAIN ARABIC PRGR. * Fridays only.
03.55–06.00 on 818/980/1079/1178/**7075/9780/15475** kc
06.00–07.00 on 818/980/1079/1178/**9780/12050/15475** kc
07.00–08.00 on 773/980/1079/1142/1178/**9780/12050/15475** kc
07.00–09.00*on 773/980/1079/1142/1178/**9780/12050** kc
08.00–11.00 on 773/1079/1178/**9780/12050** kc
09.00–11.00*on 773/980/1079/1142/1178/**9780/12050/15475** kc
11.00–15.00 on 818/980/1079/1142/1178/**9780/12050/15475** kc
15.00–23.40 on 818/980/1079/1142/1178/**7075/9780/15475** kc.
N.: 05.00, 06.55, 10.00, 12.30, 15.00, 17.00, 18.30, 20.00, 21.00, 23.15 – **Comm.:** 06.00, 12.45, 15.45, 18.45 – **Nat. Music:** 05.25, 09.30, 11.45 – **Prgr. Preview:** 04.43, 14.45 – **T.S.:** Cairo University Clock at the beginning of the main news bulletins.
VOICE OF ARABS:
03.00–07.00 on 620/7050/11745 kc, 07.00–09.00(Tues 10.15) on 665/7050/11745 kc, 09.00(Tues 10.15)–15.00 on 620/7050/11745 kc, 15.00–00.15 on 620/7050/11745/15430 kc.
N., Comm.: 03.30, 03.45, 08.15, 11.30, 13.00, 14.00, 18.00, 19.10, 20.30, 24.00 – **Palestine Prgr.:** 05.30, 15.15 – **Arab Maghreb Prgr.** (for No.We. Africa): 20.00.
SOUDANESE PRGR.:
04.30–06.00 on 665/11915 kc, 13.00–16.28 on 773/11915 kc.
N. & Commentary: 05.00, 05.30, 13.45, 14.20, 15.30.
SECOND PRGR. (Cultural): 19.00–22.15 on 773 kc.
POPULAR CULTURAL PRGR.: 14.00–23.30 on 665 kc – **N.:** D 14.15, 17.15, 22.30.
ALEXANDRIA REG. PRGR.: 15.00–22.00 on 1277 kc – **N.:** D 17.30, 19.30.
FOREIGN LANGUAGE PRGR. (Local Service):
05.00–07.00, 10.30–14.00 on 557 kc, 14.00–17.00 on 926 kc, 17.00–22.00 on 557 kc, (Fri, Sun also 07.00–09.30 on 557 kc).
N., Comm.: English: 05.30, 12.30, 18.00 – **French:** 06.00, 12.00, 19.00 – **German:** 16.00 – **Greek:** 05.00, 13.00 – **Italian:** 15.00.

FOREIGN SERVICE

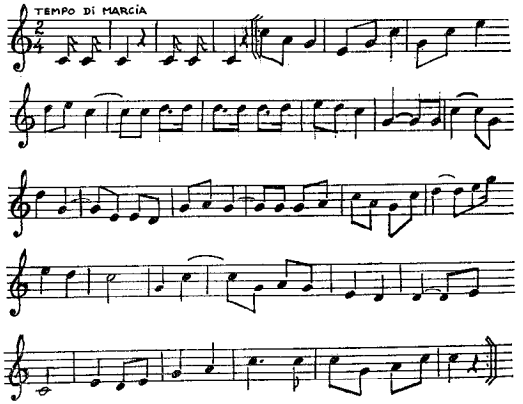
TO SOUTH & SOUTH EAST ASIA: 10.30–15.30 on 17905 kc (Arabic 10.30, Bengali 12.30, Pushtu 13.30, Urdu 14.30). 11.00–14.30 on 17920 kc (Malayan 11.00, Thai 11.45, Indonesian 12.30, English 13.30).
TO EAST & CENTRAL AFRICA: 14.45–17.00, 17.45–19.30 on 17920 kc (Amharic 14.45, Swahili 15.30, Lingala 17.45, Sosuto 18.30). 15.45–18.30 on 17905 kc (Sudanese accents 15.45, Nianga 16.00, Somali 16.45, English 17.45).
TO WEST AFRICA: 19.30–21.45 on 17690 kc (English 19.30, Hausa 20.15). 18.45–20.45 on 15210 kc (French 18.45, Foulani 19.45).
TO MIDDLE EAST: 15.00–17.30 on 12050 kc (Persian). 16.30–17.30 on 9495/11915 kc (Kurdish 16.30, Turkish 17.30).
TO EUROPE: 18.30–23.30 on 9495/11915 kc (Italian 18.30, French 19.30, German 20.30, English 21.30, Arabic 22.30).
TO NO. & SO. AMERICA: 00.00–02.45 on 9780 kc (No. Am.). 15350 kc (So. Am.): Portuguese: 00.00, Spanish: 00.45, Arabic: 01.30.
DICTATION SPEED NEWS: 06.00–06.30 on 7075/11915 kc Arabic, 06.30–07.00 on 7075/11915 kc **English,** 13.30–13.50 on 7075/11930 kc Arabic.
INT.-SIG.: Camel Bells – V. Re. wanted. They are answered by QSL-card. Reports should be addressed to Propagation & Monitoring Dept., U.A.R. Broadcasting and TV, Maspero, Cairo – **PUB.:** Prgr.-schedules twice per year. Weekly and quarterly magazines in Arabic.

ETHIOPIA

L.T.: GMT+3 h. – **Pr. L.:** Amharic, Arabic, English, Somali. –
RADIO ADDIS ABABA (Go.)
FI.: By Go. – **AD.:** After N. in all languages.
ADDR.: Radio Division, Ministry of Information, P.O. Box 1364, Addis Ababa. **Cable:** Ethiopress. **Te.:** 12356 – **L.P.:** Minister: B. G. T. Hawariat. Vice Minister: A. B. Gabresadik. Dir. Gen.: T. Abebe. Studio Dir. Tec.: T. Y. Dafla. Mgr. Broadc. Dept.: B. Desta.
STATIONS: Addis Ababa (System: mw: RCA, sw: Brown Boveri).

kc	m	kW	kc	m	kW	kc	m	kW	kc	m	kW
870	345.0	1	7290	41.15	10	11955	25.09	20	17750	16.90	20
6185	48,50	10	9610	31.22	10	15345	19.55	20			

HOME SCE.:
Amharic: 04.30–05.30 (W), 07.00–08.00 (Sun) on 870/6185/7290 kc. 11.00–12.00 (W) on 870/7290/9610 kc. 17.00–18.00, 19.00–20.00 (D) on 870/6185/7290 kc. – **N., Wrp.:** 05:00, 11.00, 17.00 – **Mbg.:** Sat 17.15 – **English Lesson:** Sun 19.30.
Somali: 04.00–04.30 (W), 06.30–07.00 (Sun) on 870/6185/7290 kc. 10.00–10.15 (W) on 870/7290/9610 kc. 16.30–16.45 (D) on 870/6185/7290 kc. 16.45–17.00 on 870/7290 kc – **N.:** 04.05, 10.00, 16.30.
Arabic: 08.15–09.00 (Sun) on 9610 kc. 16.00–16.15 (D) on 870/6185/7290 kc – **N.:** 16.00.
Swahili: 10.30–10.45 (D) on 9610 kc. 16.45–17.00 (D) on 6185 kc – **N.:** 10.30, 16.45.
English: 10.15–11.00 (D) on 870/7290 kc, 16.15–16.30 (D) on 870/7290/ 9610 kc – **N.:** 10.15, 16.15.
INTERNATIONAL SCE.:
Arabic: To M. East: 15.10–15.50 on 17750 kc – **N.:** 15.10 – **English:** To Europe: 18.10–18.30 on 15345 kc – **N.:** 18.25 – To We. Africa: 20.10–20.50 on 11855 kc – **N.:** 20.25 – **French:** To Europe: 18.30–1850 on 15345 kc – **N.:** 18.45 – To We. Africa: 20.30–20.50 on 11955 kc – **N.:** 20.45 –
ANN.: E: "This is the Internal (or External) Service of R. Addis Ababa, the Voice of Ethiopia" – F: "Ici R. Addis Ababa la Voix de l'Ethiopie" – **Amharic:** "Yih ye Ethiopia Radio New" – **Somali:** "Halkani wa Addis Ababa Radio Ethiopia" – **Arabic:** "Huna Addis Ababa saut Ethiopia" – **Swahili:** "Hii ni idhaa ya kiswahili ya Radio Addis Ababa sauti ya Ethiopia". – **INT.-SIG.:**



V. by QSL-card. Re. in E, F or Amharic – F.PL.: 1964: 100 kW mw- and sw-tr. at Addis Ababa; 10 kW mw-tr's at Asmara and Dire Dawa; 7 other 1 kW mw-tr's in the provinces – PUB.: Radio Journal (quarterly).

LUTHERAN WORLD FEDERATION BROADC. SERVICE (Educational, religious).

FI.: By free-will offerings by the membership of the churches belonging to the LWF – ADDR.: P.O. Box 654, Addis Ababa – Cable: Lutherworld. Te.: 46730. – L.P.: Dir. Gen.: Rev. Dr. Sigurd Aske. Dir. Prgr.: Rev. U. Fick. Dir. Tec.: E. Kraemer. Mgr.: Th. Månsson.

STATIONS: "Voice of the Gospel" ETLF 100 kW.

kc	m	kc	m	kc	m	kc	m
6150	48.78	9760	30.74	15220	19.71	15345	19.55
9665	31.04	11880	25.25	15315	19.60	15415	19.46
9740	30.80	11930	25.15	15340	19.56	17740	16.91

Official opening date 26th February 1963.

Schedule: 26/2–30/4 63 (one 100 kW tr.).

Times	kc	Area	Times	kc	Area
15.30–16.00	9760	Madagascar	17.30–18.00	9760	We. Arab.
16.00–16.30	9760	Ea. Arab.	18.00–19.00	9760	So. Africa
16.30–17.00	6150	Ethiopia	19.00–20.00	15220	We. Africa
17.00–17.30	9760	Tanganyika			

Tentative schedule May-Sept. 63 (two 100 kW tr's).

Times	m.b.	Area	Times	m.b.	Area
12.30–13.30	19	Indonesia	16.30–18.00	31	Tanganyika
13.30–14.00	25	India (Urdu)	16.30–17.30	49	Ethiopia
13.30–14.30	25	No. India/Pakis.	18.00–19.30	31	So. Africa
14.00–15.00	25	India	17.30–19.00	31	We. Arab.
14.30–15.30	41	Ea. Africa	19.00–20.30	19	We. Africa
15.00–16.30	25	Ea. Arab.	19.30–20.30	31	Congo
15.30–16.30	31	Madagascar			

ANN.: "This is Radio Voice of the Gospel, Addis Ababa, Ethiopia" or "This is station ETLF Lutheran World Federation" – V. by QSL-card (after 26.2.63).

PUB.: Newsletter (3 or 4 times a year).

GABON (Republic)

L.T.: GMT+1 h. – Pr.L.: French.

RADIODIFFUSION NATIONALE GABONAISE (GO.)

FI.: By Go. and by OCORA.

ADDR.: B.P. 150, Libreville. Cable.: Radiogabon. Te.: 2952. – L.P.: Dir. Gen.: G. Rawiri. Dir. Prgr.: J. Guillard. Dir. Tec.: Vassalo.

STATIONS: 1520 kc 197.3 m 1 kW (System TRT) – 4775 kc 62.84 m 30 kW (System AME) – 7270 kc 41.27 m 4 kW (System TRT).

HOME SERVICE in French: W: 05.00–06.30, 10.00–13.00, 17.00–21.00 (Sat: 16.00–23.00) Sun: 07.00–21.00. N.: W. 07.00, 13.15, 19.30, 20.15.

T.S.: 05.45 (W), 11,45. 18.30 – L.L.: English: Tues, Fri: 17.35.

ANN.: "Radiodiffusion Nationale emettant de Libreville et de Moanda" – V. by letter – F.PL.: Reg. st's at Oyem, Port-Gentil – PUB.: Prgr. schedule (weekly).

GHANA

L.T.: GMT – Pr. L.: Akan, Ewe, Dagbani, Ga, Hausa, Nzema.

GHANA BROADCASTING SYSTEM (Go.)

FI.: By subvention from Go. and revenue from wired broadc – ADDR.: Broadcasting House, P.O. Box 1633, Accra. Cable: Broadcasts. – Te.: 75551 – L.P.: Dir. Gen.: W. F. Coleman M.B.E., B. Sc., A.M.I.E.E. Dir. Tec.: H. H. Walter, A.M.I.E.E. Dir. Prgr.: J. Ghartey.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW	kc	m	kW
3366	89.12	20	7295	41.12	10	11800	25.42	100	17910	16.75	100
4915	61.04	5	9545	31.43	100	15190	19.75	100	21545	13.92	100
6070	49.42	100	9640	31.12	10	15287	19.63	100			

HOME SCE.: W: 05.30–08.00 on 3315/4915 kc, 12.00–16.00 on 4915/7295/9640 kc, from 13.30 also on 3366 kc, 16.00–18.15 on 3366/7295/4915 kc, 18.15–22.20 (Sat 23.05) on 3366/4915 kc. Sun: 05.30–07.15 on 3366/4915 kc, 07.15–08.00 on 3366/4915/7295 kc, 08.00–16.00 on 4915/7295/9640 kc (from 13.30 also on 3366 kc), 16.00–18.15 on 3366/4915/7295 kc, 18.15–22.20 on 3366/4915 kc.

N.: English: 06.00[1]), 07.00[2]), 13.00[2]), 18.00[2]), 20.00 (African), 21.00[1]), 22.15[1]) [1]) Home N. [2]) International N.

Ghana Languages: 12.15, 16.30 – Wrp.: 12.00, 17.45.

FOREIGN SERVICE: 4 tr.'s, 100 kW each.

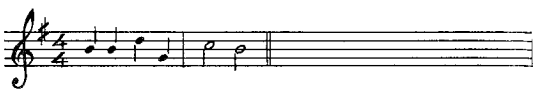
Areas: I=Sudan, Ethiopia, Somali, II=Angola, Mozambique, III=E. Africa, IV=S.,S.W. & S.E. Africa, V=We. Africa: VI=U.A.R., Sudan, VII=Port. Guinea, VIII=Congo, C. Africa, Madagascar, IX=E. Africa & N.E. Congo, X=U.K. Europe, XI=No. Africa.

Arabic	kc	Area
15.45–16.30	21545	VI
20.05–20.50	11800	XI
English		
14.00–14.15	15190	I
14.45–15.30	17910	III
14.45–15.30	21545	IV
14.45–15.30	6070	V
17.00–17.45	6070	V
18.30–19.15	11800	I
20.00–20.45	15287	IV
20.00–20.45	6070	V
20.50–21.35	11800	X
21.30–22.15	6070/9545	V

French	kc	Area
17.45–18.30	11800	VIII
17.45–18.30	6070	V
19.15–20.00	11800	VIII
19.15–20.00	6070/9545	V
20.45–21.30	6070/9545	V
Hausa		
15.45–16.30	6070	V
18.30–19.15	6070/9545	V
Portuguese		
14.00–14.45	21545	II
16.45–17.30	21545	II
16.45–17.30	11800	II+VII
Swahili		
14.00–14.45	17910	III
15.45–16.30	17910	III
17.15–18.00	17910	III

N. in English: 14.00, 14.45, 17.00, 20.00, 20.50, 21.30.

ANN.: "This is the National Service of the Ghana Broadcasting System" preceded by drumming or "This is R. Ghana, Accra" –



INT.-SIG.: Guitar – V. by QSL-card and letter. Re. on technical matters to Propagation Engineer, on prgr.'s to Asst. Head of Prgr.s (External) – F.PL.: Six 10 kW sw.-tr.'s at Ejùra for National Sce. PUB.: "Radio Review & TV Times" (weekly), External Sce. schedule.

GUINEA (Rep.)

L.T.: GMT – Pr. L.: French, Vernaculars.

RADIODIFFUSION NATIONALE (Go.)

ADDR.: B.P. 617, Conakry. Cable: Radio Guinée. Te.: 2412 – L.P.: Dir.: E. Tompapa. Dir. of Prgr. & External Relations: E. Katty. Dir. Tec.: M. Saadi. Dir. External Dep.: J. Manguet. Chief of High Frequencies: J. Daffé. Chief of low Frequencies: L. Faoro.

STATIONS:

1403 kc 213.8 m 4 kW – 7125 kc 42.11 m 18 kW.
4910 – 61.10 – 18 – – 11965 – 25.07 – 100 –

HOME SERVICE in French, National languages, English, Creole-English, Portuguese, Creole-Portuguese, Ouolof, Bambara, Mandjake, Arabic:

W 06.00–08.00, 12.00–14.00, 18.00–22.30 (Sat 16.00–24.00). Sun 09.00–14.00, 16.00–23.30.

On 4910 kc: 06.00–08.00, 18.00–22.30 (Sat 16.00–24.00, Sun 16.00–23.30). On 7125 kc: 12.00 (Sun 09.00)–14.00. On 11965 kc: W 12.00–14.00, 18.00–22.30 (Sat 16.00–24.00). Sun 09.00–14.00, 16.00–23.30.

N.: French 07.00 (W), 09.15 (Sun), 12.45, 18.45 (W), 20.05, 22.15 (W). Portuguese: Sun 12.00. Creole Portuguese: Sun 12.15. Mandjake: Sun 12.35. Ouolof: Sun 18.40. Bambara: Sun 19.10. Arabic: Sun 19.40. English: W 20.20.

ANN.: F.: "Ici la Voix del a Revolution (before news)" or "Ici Conakry, Radiodiffusion Nationale" or "Ici Conakry Radiodiffusion de la Republic de Guinee". E.: "Here is the Voice of the Revolution".

INT.-SIG.: First movement of the popular heroic song "Alpha Yaya" on guitar:

RCA ENTERTAINMENT TUBES
RCA POWER TUBES
RCA INDUSTRIAL TUBES
RCA SEMICONDUCTORS

TRADEMARK ® REGISTERED

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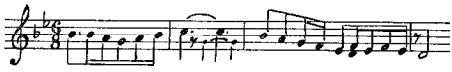
phone 688.10.41 - cable ATES Milano

The products of ATES are manufactured according to the standards of RADIO CORPORATION OF AMERICA and marked RCA under its authorization



V. by letter – F.PL.: Reg. st.'s at Sonfonia & Kipe.

GUINEA (Portuguese)

L.T.: GMT+1 h – Pr. L.: Portuguese.

EMISSORA DA GUINÉ (Go.)
AD.: 15 min. a day – ADDR.: Emissora da Guine, Bissau.
STATION: 7948 kc 37.75 m 1 kW.

HOME SCE.: 13.00–14.00 (Sun only), 21.00–13.00 – N. 21.45
ANN.: "Aqui Bissau, Emissora da Guiné Portuguesa" – INT.-SIG.: "Variations in D-minor" by A. Paredes played on guitar – V. by QSL-card – F.PL.: Power 5 kW

GUINEA (Spanish)

L.T.: GMT+1 h – Pr. L.: Spanish.

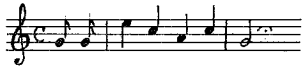
EMISORA DE RADIODIFUSION SANTA ISABEL (Go.)
ADDR.: Apt. de Correros 195, Santa Isabel, Fernando Poo.
STATION: 6240 kc 48.07 m 0.7/1.5/5 kW.
HOME SCE.: W 06.30–07.30, 12.00–14.00, 17.00–21.00. Sun 12.00–14.30.
N. in Spanish: 07.00, 13.15, 20.30.
ANN.: "Aqui Emisora de Radiodifusión de Santa Isabel de Fernando Poo" – INT.-SIG.: "Los Voluntarios". Close down: Spanish National hymn – V. by QSL-card.

RADIO ECUATORIAL (Go.)
ADDR.: Apt. 57, Bata, Provincia de Rio Muni. Cable: R. Bata. Te.: 182. – L.P.: Dir.: F. de Anta Franco.
STATION: 7850 kc 38.20 m 5 kW.
HOME SCE.: 10.00–13.45, 18.00–22.00 – N.: 13.00, 21.55.
ANN.: "Aqui Radio Ecuatorial Bata, Emisora de Rio Muni" – V. by QSL-card.

IVORY COAST (Republic)

L.T.: GMT – Pr.L.: French, Vernaculars.

RADIO ABIDJAN (Go.)
FI.: 50% by the Ivory Coast Co. and 50% by the French Go. – AD.: 1% of all prgr.'s – ADDR.: Radiodiffusion de la Côte d'Ivoire, B.P. 2261, Abidjan. Cable: Radiocotivoire. Te.: 3514 – L.P.: Dir.: A. Thiam. Dir. Tec.: L. Diallo.
STATIONS:
National Network: 1240 kc 242.1 m 1 kW – 4940 kc 60.73 m 10 kW – 7215 kc 41.58 m 25 kW.
International Network: 1493 kc 201.0 m 4 kW – 11820 kc 25.38 m 100 kW.
HOME SERVICE in French, Mossi, Sénoufo, Dioula, Ebrié, Beté, Baoulé, Dida, English:
National Network: 1240, 7215 kc: W 06.30–07.30(Thurs 08.00), 12.15–13.30, 17.30–22.30 (Sat 12.30–23.00). Sun 07.15–22.30 (D 12.15–13.30 also on 1493/11820 kc) – 4940 kc: 06.30–07.30, 17.30–22.30.
N.: French: 06.45(W), 07.30(Sun), 12.45, 19.00, 20.00, 22.25 (exc. Sat), 22.55(Sat). Vernaculars: 17.45–18.45 – L.L.: English: Mo–Fri 19.30.
International Network: W 06.30–08.00, 18.00–24.00. Sun 07.15–08.15, 18.00–24.00 (D 12.15–13.30 relay National Network).
N.: French: 07.15(W), 07.30(Sun), 12.45*, 20.00*, 23.55 (* relay Nat. Network). English: 18.45(W).
ANN.: "Ici Abidjan, Radiodiffusion de la Côte d'Ivoire émettant sur..." – V. by QSL-card – F.PL.: Relay st's – PUB.: Prgr.sched. (weekly).

INT.-SIG.: 

KENYA (British)

L.T.: GMT+3 h – Pr. L.: English, Swahili, Hindustani.

KENYA BROADCASTING CORPORATION (Indep.)
FI.: By state, licenses and adv. – AD.: W only. Spot announcements & sponsored prgr.'s at various times.
ADDR.: Box 30456, Nairobi. Cable: Broadcasts. Te.: 27081. Coast Regional: P.O. Box 584, Mombasa. Te.: 6243. West Kenya Regional: P.O. Box 844, Kisumu. Te.: 23.00 – L.P.: Dir.: C. P. Jubb. Dir. Tec.: G. Phillips. Dir. Prgr.: A. M. Dean.

HOME SERVICES

General Service (Nairobi): W 03.15–06.15, 09.15–11.15, 13.00–20.00. Sat 03.15–21.00. Sun 04.00–20.00.
863 kc 347.7 m 10 kW: **FM:** 93.9 Mc 0.05 kW: as above.
4885 – 61.41 – 10 – : 03.15–06.15 (Sun 05.45) 13.00–20.00 (Sat 14.15–21.00, Sun 14.15–20.00).
7240 – 41.44 – 10 – : 09.15–11.15 (Sat/Sun 09.00–14.00).
N.: 04.00*), 05.00*) (W), 06.00*) (Sun), 10.15, 11.00*) 16.00*) (Mo–Fri), 16.10 (W), 17.00 (Sun), 18.00*) 18.15 (W).
*) BBC-news.

Asian National (Nairobi): W 03.30–05.00, 09.30–11.00, 14.00–19.30. Sat 03.30–05.00, 09.30–19.30. Sun 05.00–19.00.
683 kc 439.2 m 5 kW: as above.
4855 – 61.79 – 6 – : 03.30–05.00, 14.00–19.35 (Sun 14.00–19.00).
7125 – 42.11 – 6 – : 09.30–11.00 (Sat 09.30–13.45, Sun 05.00–13.45).

African National (Nairobi): W 03.00–04.30, 10.00–11.00, 14.30–19.30 (Sat 20.00). Sun 04.00–11.00, 14.00–19.30.
750 kc 400.0 m 10 kW: as above.
4934 – 60.80 – 10 – : 03.00–04.30 (Sun 05.00) 14.30–19.30 (Sat 20.00, Sun 15.00–19.30).
7210 – 41.61 – 10 – : 10.00–11.00 (Sat 10.00–14.15, Sun 06.15–14.45).

N. in English (BBC): D 18.00, Sun 06.00.

African Regional (Nairobi): 09.15–10.30, 13.15–17.00 (Sun 16.30).
1268 kc 236.6 m 2 kW: as above.
4950 – 60.60 – 6 – : 13.15–17.00 (Sun 16.30).
7150 – 41.96 – 6 – : 09.15–10.30.

Coast Regional (Mombasa): 791 kc 379.2 m 20 kW: W 10.00–11.00, 14.00 (Sat 13.45)–20.30. Sun 06.15–20.30.
West Kenya Regional (Kisumu): W 10.00–13.00, 13.27–19.00. Sun 09.15–13.00, 13.15–19.00.
953 kc 314.6 m 5 kW: as above.
4804 – 62.45 – 5 – : 13.27–19.00 (Sun 13.15–19.00).
7290 – 41.15 – 5 – : 10.00–13.00.
N. in English: 18.00 (BBC).

ANN.: All tr.'s are regularly identified by the words "Kenya Broadcasting Service" preceeded by the appropriate national or regional service identify.

INT.-SIG.: Sound of African birds – **V.** by letter. Re. to Controller of Prgr.'s – **PUB.:** Radio Times (weekly).

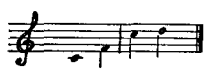
FORCES BROADCASTING STATION (British Forces)

ADDR.: British Forces P.O. 10, Nairobi. Te.: 55232.
STATIONS: 1448 kc 207 m 1 kW – 6112 kc 49.08 m 0.25 kW.

HOME SERVICE in English: W: 03.00–05.45, 09.30–20.00 (Sat 21.00). Sun 04.00–20.00 (Entertainment and BBC-Relay for British Troops in Kenya). **N.:** 04.00, 05.00, 10.00, 16.00 (Sun), 18.00, 20.00 (exc. Sat).

ANN.: "This is the Forces Broadc. Service East Africa".

INT.-SIG.:



V. by QSL-card or letter. **R.p.**

LIBERIA

L.T.: GMT ÷ ¾ h – **Pr. L.:** English, Liberian-Vernaculars.

LIBERIAN BROADCASTING CORPORATION (Priv.)

FI.: By adv. – **AD.:** All day 7 days a week – **ADDR.:** P.O. Box 594, Monrovia. **Cable:** Broadcast. **Te.:** 649 – **L.P.:** Gen. Mgr.: J. C. Knight. Eng. in-Charge: L. R. Maxwell
STATIONS: 650 kc 461.5 m 10 kW – 3255 kc 92.15 m 10 kW.

HOME SCE.: W 06.45–09.45, 12.45–23.45. Sun 07.45–22.45.
N. in English: 07.00, 08.45, 16.00, 20.00, 21.45 – **N. in African dialects:** 16.10 – **African N. in English:** 20.10.
ANN.: "This is Radio Liberia, Station ELBC Monrovia" – **V.** by letter.

RADIO STATION ELWA (Non-comm., Cultural Missionary Broadcast. Sce. of the Sudan Interior Mission).

FI.: Entirely by voluntary gifts of Christian people – **ADDR.:** ELWA Radio Village, Box 192, Monrovia. **Cable:** Evangel – .
L.P.: Gen. Mgr.: Rev.: R. G. de la Haye. St. Mgr.: Rev.: Dick Reed. Dir. Prgr.: R. Cornelius. Dir. Tec.: H. Ries. Dir. French Dept.: M. Weber. Dir. African Languages: Rev. W. H. Thompson.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
710	422.0	1	9660	31.06	10/50	11975	25.05	10/50
3225	93.05	0.5	11790	25.45	10/50	15155	19.80	50
4770	62.89	10	11825	25.37	10/50	21535	13.93	0.5

HOME SCE.: W 06.12–09.30 on 710/4770 kc, 12.42–22.45 on 710/3225 kc. Sun 06.12–23.15 on 710/3225 kc.
English: 06.30 (W), 08.15 (Sun), 09.15 (W), 12.45 (W), 18.00 (W), 20.00 (D), 20.45 (W).
N.: 07.00, 09.15 (BBC), 13.00 (BBC), 16.00, (W) 18.00 (W), 20.00.
Liberian Languages: 16.45–18.00.
West African Sce.: W 06.12–09.30 on 3225 kc, 18.57–22.30 on 4770 kc. Sun 06.12–13.45, 19.44–23.15 on 4770 kc.
English: 06.30 (W), 08.15 (Sun), 09.15 (W), 19.45, 21.45 (Sun).

FOREIGN SERVICE
To Nigeria: W 04.57–08.00, 10.57–13.30 on 11975 kc, 13.42–18.30 on 11790 kc, Sun 04.57–19.30 on 11975 kc, 13.45–19.30 on 11790 kc.
English: 06.00, 10.00 (Sun), 11.00 (W), 16.30.
N.: 06.00, 11.00 (W), 17.15 (W).
French: 05.00, 08.00 (Sun), 12.00 (W) – **L.L.** (English): Thurs 05.45 – **Mbg.:** Sun 09.45.
To Congo: W 15.12–18.00. Sun 14.27–18.00 on 15155 kc – **English:** 14.30 (Sun), 15.15 (W) – **French:** 17.00 – **L.L.** (English): Tues 17.30.
Congo Languages: 15.30 (Sun), 15.45 (W).
To Near East: D 18.09–19.30 on 15155 kc – **English:** 18.10, 19.00 – **Arabic:** 18.15 (Sun), 18.30 (W) – **Greek:** 19.15 (W).
To North Africa: 19.33–21.30(Sun 21.45) on 15155 kc – **English:** 21.00 (W), 21.15 (Sun) – **French:** 19.34 – **L.L.** (English): Mo 20.00 – **Arabic:** 20.30.
To South America in Portuguese: W 21.57–22.45 on 15155 kc.
No. American transmission: Cancelled temporarily.
ANN.: Home Sce.: "This is ELWA Radio Village, broadcasting from Monrovia, Liberia". **Foreign Sce.:** "This is ELWA Radio Village broadcasting from Monrovia, Liberia". **French:** "Ici ELWA Radio Village, Monrovia, Liberia".
INT.-SIG.: Sign on Music for all freq's: Orchestral version of hymn "What a Friend We Have in Jesus" – **V.** by QSL-card. Rp. appreciated. Re. in E or F – **PUB.:** R. News Bulletin quarterly – **F.PL.:** 10 kW on 3225 kc.

VOICE OF AMERICA RADIO STATION IN LIBERIA

ADDR.: Voice of America, Washington 25, D.C., USA.
Short Wave: Monrovia 50 kW

kc	m	kc	m	kc	m	kc	m
5980	50.17	7250	41.38	11770	25.49	15385	19.50
7195	41.70	9645	31.10	15285	19.63	17785	16.87
7235	41.47	9750	30.78				

DAILY PRGR.:
English: 03.00–04.30, 05.00–07.30, 15.00–19.30, 20.00–21.30, 22.00–22.30. **French:** 19.30–20.00, 21.30–22.00. **Swahili:** 03.00–03.30.
ANN.: "You are listening to the Voice of America from Monrovia"

★ LIBYA ★

L.T.: GMT + 2h. – **Pr.L.:** Arabic **Po.:** 1.500.000 – **Rcvrs.:** 40.000.

E.C.: 125/130/220 V., A.C., 50 c/s.

LIBYAN BROADCASTING SERVICE (Go.)

FI.: By Ministry of Information and Guidance. **Addr.:** P.O. Box 333 Tripoli. P.O. Box 274, Benghazi, **Cable:** Idaalibya. Tel. 1090 (Tripoli), 3000 (Benghazi).
I.P.: Dir. Gen. Ministry of Inf & Guidance, Dir. of press publication and broadcasting; Essayed. A.F. El Hammali. Programme consultant; Omar Ali. Tec. Supervisor. M. Arebi.

Stations:	Kc/s	m	kW
Tripoli	1052	285.1	50
Benghazi	1484	202.2	10
Benghazi	3305	90.77	7.5
Tripoli	6140	48.86	1

HOME SERVICE IN ARABIC: 05.00–07.00 (Friday 7.30). 12.00–14.00, 16.00–22.00. **N.:** 05.45, 12.30, 13.00, 13.55, 18.55, 19.30, 21.00, 21.55.
ANN. Hunna Al Idaa Allibia Min Tarablus (In case of Broadcasting From Tripoli) or Hunna Al Idaa Allibia Min Benghazi (In case of Broadcasting from Benghazi). **Int.–Sig.:** Programmes open and close with National Anthem.– **V.** by QSL-Card or letter. **F. PL:** Tripoli and Baida 100 kW at the beginning of 1963. English, French and Italian Programmes.

LIBYA

L.T.: GMT+2 h – Pr. L.: Arabic.
LIBYAN BROADCASTING SERVICE (Go.)
see advertisement on page 124.
FORCES BROADCASTING SERVICE (British Forces).
ADDR.: No. 1 Forces Broadcasting Station, B.F.P.O. 57, Tripoli. Te.: 2179 – L.P.: St. Commander: R. L. Angove, ALCM. Techn. Officer: J. Campbell.
STATION: 1394 kc 215 m 1 kW.
D.PRGR. in English: W 04.30–06.30, 10.30–21.00 (Sat 22.00). Sun 05.00–21.00. N.: relay of BBC-G.O.S.
ANN.: "This is the Forces Broadcasting Service Tripoli" – V. by QSL-card. Rp. Prgr. schedule free on request – F.PL.: Replacement with VHF tr. 93.1 Mc with 20 kW (ERP) early 1963.

FORCES BROADCASTING SERVICE, BENGHAZI.
ADDR.: British Forces Post Office 55, Benghazi – L.P.: St. Commander: D. G. Phillips. Techn. Officer: N. Joyce.
STATION: 833 kc 360 m 1 kW.
D.PRGR. in English: W 04.30–06.15, 16.00–21.00 (Sat 22.00). Sun 06.00–21.00.
ANN.: "This is the Forces Broadcasting Service Benghazi" – V. by QSL-card. Prgr. schedule free on request – F.PL.: Replacement FM tr.'s 97.8 Mc 4 kW (ERP) early 1963.

ARMED FORCES RADIO/TV SCE: see USA.

MADEIRA ISLANDS (Portuguese)

L.T.: GMT+1 h (Su. GMT.) – Pr. L.: Portuguese.
EMISSORA NACIONAL (Go.): See Portugal.

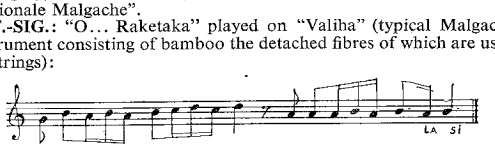
ESTACAO RADIO DA MADEIRA (Pr.)
ADDR.: Pico dos Barcelos, Funchal. Te.: 21883 – L.P.: St. Dir. & Dir. Tec.: M. de Sousa Portela Ribeiro.
STATION: CBS90 1484 kc 202 m 1 kW.
HOME SCE.: 12.30–14.30, 19.00–01.00.
ANN.: "Escutam a Estacao Radio da Madeira, no Pico dos Barcelos, Funchal, a trabalhar no comprimento de onda de – – – – –"
RADIODIFUSAO DE FUNCHAL (Pr.)
1594 kc 188.2 m 0.3 kW:
W: 13.30–17.00, 21.00–02.00. Sun: 11.30–13.30, 15.00–02.00.

MALGACHE REPUBLIC

L.T.: GMT+3 h. – Pr.L.: Malgache, French. –
RADIODIFFUSION NATIONALE MALGACHE (Go.)
ADDR.: B.P. 442, Tananarive. – Cable: R. Madagascar. – Te.: 2381.
L.P.: Dir.: R. Rabesahala. Vice-Dir.: Razanamaholy. Dir. Tec.: R. Leruste. Dir. Nat. Net. I. Andriamamonjy Dir. Nat. Net II: J. Rafidinarivo. Dir. For. Rel.: Razakandraina.
STATIONS (System: TRT + CFTH)

kc	m	kW	Netw.	kc	m	kW	Netw.	kc	m	kW	Netw.
1394	215.2	1	I	3288	91.24	4	II	7155	41.92	4	I
1502	199.7	1	II	6135	48.90	4	I	7280	41.21	4	II
3232	98.82	4	I	6170	48.62	4	II				

HOME SERVICE:
National Network I (Malgache): W 03.30–05.15, 09.00–11.00, 15.00–19.30 (Sat. 07.45–20.00). Sun. 04.00–19.30.
1394 kc: as above; 3232 kc: 03.30–05.15 (Sun. 04.00–06.00), 15.00 (Sat., Sun. 13.58)–19.30 (Sat. 20.00); 7155 kc: as above; 6135 kc: 09.00–11.00 (Sat. 13.58, Sun. 05.30–13.58).
N.: W 03.40, 04.15, 09.30, 16.00, 18.30. Sun. 05.00, 09.30, 18.30.
T.S.: 03.30, 09.30, 16.00.
National Network II (French): W 03.30–05.30, 09.00–11.00, 15.00–19.30 (Sat. 09.00–21.00). Sun. 04.00–19.30.
1502 kc: as above. 3288 kc: 03.30–05.30 (Sun. 04.00–09.00), 15.00 (Sun., Sat. 13.58)–19.30 (Sat. 21.00); 7280 kc: as above; 9515 kc: 09.00–11.00 (Sun., Sat. 13.58).
N.: 03.45 (W), 04.45, 09.00, 09.30, 10.30, 12.00 (Sat.). 13.00 (Sat.) 15.00, 16.30, 19.15.
Mgb.: Sat. 17.15 – Wrp.: 03.45, 09.30, 16.30. – T.S.: 03.45, 04.45, 09.30, 16.30, 19.15 – English Lesson: Mo., Thurs. 15.30.
ANN.: Malgache: "Antananarivo ity! Fandefasam – peom – pirenena Malagasy, antoko volohary". F: "Ici Tananarive – Radiodiffusion Nationale Malgache".
INT.-SIG.: "O... Raketaka" played on "Valiha" (typical Malgache instrument consisting of bamboo the detached fibres of which are used as strings):



V. by QSL-card – F.PL.: Two 4 kW mw.-tr's, two 30 kW sw.-tr's and one 100 kW sw.-tr. directed to We. Africa and Europe by the end of 1963. – PUB.: Prgr. schedule (quarterly).

MALI (Republic)

L.T.: GMT. – Pr.L.: French, English, Vernaculars.
RADIO MALI (Go.)
ADDR.: B.P. 171, Bamako. Cable: Radio Mali. – Te.: 2474.
L.P.: Dir.: M. Racine Kane. Dir. Tec.: J. Negre.
STATIONS:
1430 kc 210.0 m 1 kW – 4835 kc 62.05 m 4 kW
7145 – 41.99 – 50 – – 9745 – 30.80 – 4 –
HOME SERVICE in French, English, Bambara, Sonraie, Peul, Sarakolé, Ouoloff, Tamachek, Maure: W.: 06.00–08.00 on 1430, 4835, 7145 kc. 12.00–14.00 on 1430, 9745 kc. 18.00–23.00 on 1430, 4835, 7145 kc. – Sun.: 08.00–17.30 on 1430, 9745 kc. 18.30–23.00 on 1430 kc.
N.: French: 07.00. (W)., 09.00. (Sun.), 12.45, 20.15, 22.30. – English: 13.00, 20.45. – Vernaculars: D. 12.30, 13.15, W.: 18.45, 19.00, 19.15, 19.25, 19.35.
ANN.: F.: "Ici Bamako, Radiodiffusion Nationale de la Republique du Mali émettant sur ..."
INT.SIG.: African Music on local instrument "Cora".
V. by letter. – F.PL.: Two 150 kW sw.-tr.'s, two 100 kW mw.-tr.'s and tr.'s for the tropical bands.

MAURITANIA (Republic)

L.T.: GMT – Pr. L.: French, Arabic, Maure, Sarakolé, Toucouleur.
RADIO MAURITANIE (Go.)
FI.: By state and OCORA – ADDR.: Main St.: B.P. 200, Nouakchott. Te.: 64. Reg. St.: Aioun el Atrouss – L.P.: Dir.: A. O. Sidya.
STATIONS:
1349 kc 222.4 m 1 kW 7245 kc 41.41 m 4 kW
4855 – 61.79 – 30 – 9610 – 31.22 – 30 –
HOME SCE.: 07.00–08.00 (Sun 08.30), on 1349/4855 kc, 12.15–13.30 on 1349/7245/9610 kc, 20.00–23.45 on 1349/4855 kc.
N.: French 13.15, 20.30. Arabic 12.15, 22.00. Vernaculars 07.11, 12.30, 13.00, 21.15, 21.45.
ANN.: F.: "Ici Radio-Mauritanie" – INT.-SIG.: Mauritanian guitar – V. by letter. Re. in F. Arabic.
Reg. st. in Aioun el Atrouss using 5055 kc 0.25 kW relaying Nouakchott (news only).

MAURITIUS (British)

L.T.: GMT + 4 h. – Pr.L.: English, French, Hindustani, Chinese.
MAURITIUS BROADCASTING SERVICE (Go.)
ADDR.: Malherbes Transmitter Bldg., Forest Side. – Te.: Curepipe 507 – Cable: Broadcast.
L.P.: Mgr.: L.C. de Chazal. Dir. Tec.: C. N. Stansfield.
STATIONS: 10 kW:
683 kc 439 m – 3335 kc 89.95 m – 9710 kc 30.90 m.
HOME AND DEPENDENCIES: W.: 03.00–04.15, 08.00–09.30, 13.00–18.15. Sun. 03.00–18.15.
683 kc: as above; 3335 kc: evening only, 9710 kc: morning + midday.
French/English: W.: 03.00–04.15, 08.00–09.30, 14.30–18.15. Sun.: 03.00–03.45, 14.30–18.15. – N. in French: 03.30, 08.30, 15.00, 17.30. N. in English: 04.00, 18.00. Wrp.: 03.40, 15.10. (French), 04.10 (English). Hindustani: W. 13.00–14.30, Sun. 09.30–14.30. N.: 13.30. Chinese: Sun. 08.45–09.15, Tues., Thurs. 09.30–10.15.
Mgb. (for Mauritians Overseas): Sun. 06.20. – L.L.: Tues. 14.30–14.45 (English).
ANN.: E.: "This is the Mauritius Broadcasting Service". F.: "Ici le M.B.S. poste de radiodiffusion de l'Ile Maurice". V. by letter.

MOROCCO

L.T.: GMT – Pr.L.: Arabic, French, Spanish, English, Berber.
RADIODIFFUSION TELEVISION MAROCAINE (Go.)
ADDR.: I, Zenkat Pierre Parent, Rabat – L.P.: Dir. Gen.: M. Ould Bah. Dir. Tec.: A. Benkirane.

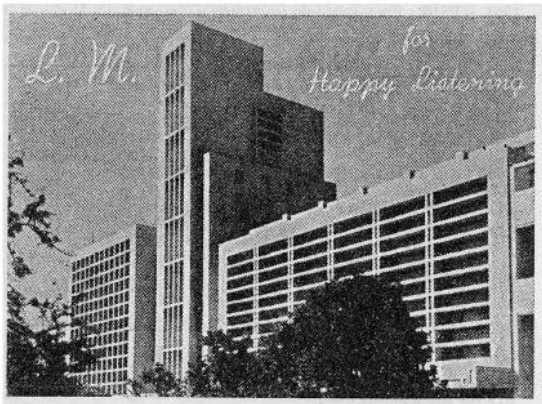
HOME SERVICE

First Network (Chaine A): Arabic: W exc. 06.30–10.00, 12.00–16.00, 18.00–24.00. Fri 06.30–16.30, 18.00–24.00. Sun 06.30–24.00.

	kc	m	kW		kc	m	kW
Sebaa Aioun	611	491	140	Safi	1025	293	1
Casablanca	818	367	1	Tetuan	827	263	20
Oujda	593	506	100	Tanger	947	318	20
Rabat	917	327	1	Sebaa-Aioun	7115	42.18	10
Marrakech	1196	250.5	1				

Second Network (Chaine B): French, Spanish, English.
W 06.45–09.00, 12.00–15.00, 18.00–24.00. Sun 07.30–24.00.

	kc	m	kW		kc	m	kW
Sebaa-Aioun	710	428	140	Oujda	1043	287	1



These are your

Lourenco Marques Radio

Wavebands for happy listening

[1])	15.30—22.00	917 kc (327 m)
[2])	03.30—04.45	
	17.00—21.00	3218 kc (93.20 m)
[3])	20.00—21.00	3301 kc (90.88 m)
[4])	03.30—06.00	
	14.00—21.00	4849 kc (61.84 m)
[5])	20.00—21.00	4859 kc (61.74 m)
[6])	03.30—17.00	7249 kc (41.38 m)
[7])	05.00—16.00	9620 kc (31.18 m)
[8])	05.00—16.00	11760 kc (25.51 m)

Transmitter 1 closes down at 23.00 Sat.
Transmitters 2 and 4 close down at 22.00 hours on Saturdays.

All times indicated are GMT.
NOTE: Subject to seasonal changes.

LOURENÇO MARQUES *For Happy Listening*

For full information see this page.

Casablanca	1187	253	1	Tanger	1016	295.5	1
				Sebaa-Aioun	7225	41.52	10

French: W 06.45-08.30, 12.30-14.00, 18.30-23.00. Sun 07.30-10.00, 11.00-23.00 – **Spanish:** W 08.30-09.00, 14.00-15.00, 23.00-24.00. Sun 10.00-11.00, 23.00-24.00 – **English:** 12.00-12.30, 18.00-18.30.
Third Network (Chaine C): Berber: 12.00-14.00, 17.00-22.00.
Rabat 1295 kc 202 m 1 kW – Marrakech 1196 kc 250.5 m 1 kW – Tetuan 917 kc 327 m 5 kW – Casablanca 1484 kc 202 m 1 kW – Sebaa-Aioun 935 kc 321 m 25 kW.

FOREIGN SERVICE

Arabic to South on 6190/9505/15345 kc – **To M. East** on 15345 kc: 06.30–09.00, 12.00–15.00, 18.00–24.00.
Arabic special prgr. to East: Tangier 15185 kc 19.76 m 100 kW
Arabic, French, English to South: Tangier 11735 kc 25.52 m 50 kW. 12.30 Arabic, 18.00 English, 18.30 French, 20.30 French (Bon soir l'Afrique), 21.30 English (N. 22.00), 22.30 Ouolof.
"VOICE OF MOROCCO": Tangier 1232 kc 243.5 m 50 kW. 07.00 **French,** 08.30 **Spanish,** 10.00 **Arabic,** 18.00 **English,** 18.30 **Spanish,** 19.30 **French,** 20.30 **Arabic.**
ANN.: F: "Ici Rabat Radiodiffusion Télévision Marocaine". E: "This is the Morroccan Broadcasting and Television System Rabat". Sp: "Aqui Radiodiffusion Televisión Maroquí" – V. by QSL-card – **PUB.:** Monthly magazine in Arabic.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS: Tangier 35/50/100 kW: 02.00–08.00, 11.45–23.30.

kc	m	kc	m	kc	m	kc	m
5955	50.38	7270	41.27	9760	30.74	15205	19.73
6065	49.46	9520	31.51	11710	25.62	15290	19.62
6080	49.34	9545	31.43	11785	25.46	15330	19.57
6115	49.06	9560	31.38	11825	25.37	15430	19.44
6135	48.90	9615	31.20	11875	25.26	17705	16.94
6170	48.62	9635	31.14	15115	19.85	17750	16.94
7160	41.90	9670	31.02	15150	19.80	17855	16.80
7200	41.67	9680	30.99	15160	19.79	21455	13.98
7215	41.58	9740	30.80	15185	19.76	21695	13.83
7255	41.35						

D. PRGR.: Short Wave: See USA.
ANN.: "This is the Voice of America Relay St. at Tangier" – **INT. SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA – V. by QSL-card.

MOZAMBIQUE (Portuguese East Africa)

L.T.: GMT + 2 h. – **Pr. L.:** Portuguese, English, Local dialects, Afrikaans.
RADIO CLUBE DE MOCAMBIQUE Non-profit organization).
FI.: By state, licenses, adv. – **AD.:** Portuguese netw. 04.45–06.15, 09.30–12.00, 15.45–21.00, in English netw. 03.30–22.00.

ADDR.: P.O. Box 594, Lourenço Marques. – **Cable:** Radioclube. – **Te.:** 4045. – **L.P.:** Dir. Gen.: Capt. António dos Santos. Figueiredo. Mgr.: Capt. João Pinheiro. Dir. Tec.: V. Rodriques. Chief Portuguese Section: E. Oliveira. Chief English Section: D. Davies.

STATIONS: 100, 50, 20, 10, 7,5 kW alternating. Call: CR7–.
PORTUGUESE NETWORK: W.: 04.45–08.30, 09.30–12.00, 15.30–20.30. Sun.: 05.45–12.00, 15.30 (or 13.00)–20.30.

BO	737 kc/s	407.0 m		10	kW:	as above.	
–	3250	–	92.31	–	5	–	: 17.00–21.00.
BU	4924	–	60.92	–	7,5	–	: 15.30–21.00.
CC	9656	–	31.06	–	7,5	–	: 04.45 (Sun. 05.45)–12.00
BG	15292	–	19.62	– 5/10/100		–	: as above to 12.00, 15.30–18.00.

N.: 05.35, 10.30, 17,30, 20.30. – **Rel.:** Sun. 07.00, 18.00. – **Wrp.:** 10,30, 16.30. – **L.L. (English):** Tues. 11.20. Fri. 16.00.

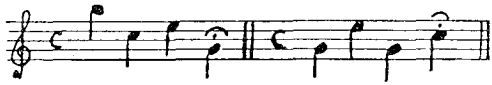
ANN.: On the h.: 4 notes on gong followed by "Aqui Portugal Moçambique fala-vos o Radio Clube em Lourenço Marques transmitindo en ondas curtas e midias".
INT.SIG.: Gong – V. by QSL-card.

ENGLISH/AFRIKAANS NETWORK: Beamed to So. Af., Rhodesia, Nyasaland, 03.30 (Sun. 05.00–22.00. (Sat. 23.00).

SR	917	kc	327.0 m	100	kW:	03.30–07.00, 15.30–22.00 (Sat. 23.00).	
BM	3218	–	93.23	–	7,5	–	: 03.30–04.45, 17.00–21.00 (Sat. 22.00).
AB	3301	–	90.88	–	7,5	–	: 20.00–21.00.
BV	4849	–	61.84	–	10	–	: 07.30–21.00 (Sat. 22.00).
–	4859	–	61.74	–	7,5	–	: 20.00–21.00
–	7249	–	41.38	–	7,5	–	: 03.30–17.00.
DE	9620	–	31.19	–	7,5	–	: 05.00–16.00.
–	11760	–	25.51	–	7,5	–	: 05.00–16.00.

Request (Hospitals Hour): 07.00–08.45. **Rel.:** D. 20.00–21.00 on 3301, 4859 kc. – **Wrp.:** between 15.00–16.00.

ANN.: Every quarter-hour and half-hour 4 notes on gong followed by: "This is Lourenço Marques Radio for Happy listening broadcasting from Portugal Moçambique ... broadcasting in the 25, 31, 42 metre bands". – **INT.SIG.:** Gong. – **V.** by QSL-card. – **PUB.:** Monthly: Radio Moçambique.



FOREIGN SERVICE in Portuguese & English: 14.30–15.30 on 15300 kc 19.60 m 10 kW (CR7BG)
Portuguese: Mo., Wed., Fri.– **English:** Tues., Thurs., Sat..

A VOZ DE MOÇAMBIQUE: Sun. 06.30–09.00. Sun. & Thurs.: 16.00–19.00.

–	1223 kc	245.0 m	1	kW:	as above.
CA	3406 –	88.07 –	5	– :	Sun., Thurs. 16.00–19.00.
–	4859 –	61.74 –	7,5	– :	Sun., Thurs. 16.00–19.00.
–	7238 –	41.44 –	5	– :	Sun. 06.30–09.00.

BRANCH STATIONS: 0.25 kW.
Nampula: Portuguese: W. 10.30–11.30, Sun. 07.00–09.30 on 1223 ks (245 m), 9525 kc (31,50 m). – D. 16.30–19.30 on CR7XD 4855 kc 61.79 m. **N.:** 10.45, 17.15, 19.55 – **Native Dialects:** Sun. 16.00–19.00 on 5100 kc 58.82 m.
Quelimane: Portuguese: W. 10.15–12.00, Sun. 08.00–12.00, 14.00–15.00 on 935 kc (321 m), 9621 kc. – D. 16.30–19.00 on 935 kc (321 m), 4775 kc (62.83 m). **N.:** 11.15, 17.30.
Porto Amelia: Portuguese: D. 10.30–12.00 on 1421 kc (211 m), 9586 kc (31.30 m). – D. 16.30–19.00 on 1421 kc (211 m), 4895 kc (61.29 m). **N.:** 10.30, 17.30.

EMISSORA DO AERO CLUBE DA BEIRA (Priv., Comm.)
FI.: By adv. **ADDR.:** C.P. no. 3, Beira. **Cable:** Aero. **Te.:** 2505.
L.P.: Dir.: F. J. Silvério Moiteira.
STATIONS: mw. 5 kW, sw. 0.3 kW.
1430 kc 210.0 m 3255 kc 92.15 m 7255 kc 41.35 m

HOME SCE. in Portuguese: W 04.30–05.30, 09.30–11.20(Sat 12.00), 16.00–20.30. Sun 06.00–08.00, 09.00–12.00, 15.30–20.30.
N.: 04.50 (W), 10.00, 16.50, 17.45, 20.15.
ANN.: "Aqui Portugal Radio-Moçambique-fala-vos a Emissora do Aéro Clube da Beira" – **INT.-SIG.:** Chimes – **V.** by QSL-card.

RADIO PAX (Rel. Owned by Franciscan Fathers)
FI.: By gifts and state. – **ADDR.:** C.P. 594, Beira. – **Cable:** Radio Pax. **Te.:** 2763. – **L.P.:** St. Mgr.: E. Costa. Dir.: A. Barbosa. Dir. Tec.: C. Roca. Dir. For. Rel.: A. Conçalves.
STATIONS (System RCA):
CR7RA 3952 kc 75.91 m 5 kW – CR7RB 7205 kc 41.64 m 5 kW.

HOME SCE. in Portuguese: D. 04.00–05.30, 09.30–11.30, 16.00–20.30.
ANN.: "Aqui Portugal, Moçambique, Fala-vos a Emissora Católica Rádio Pax, na Beira". – **INT.-SIG.:** Chimes. Prgr.s open with a religious choir. – **V.** by letter. – **F.PL.:** Power 10 kW.

NIGER (Republic)

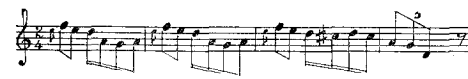
L.T.: GMT+1 h – **Pr. L.:** French, Hausa, Djerma, Tamachek, Peulh.

RADIO-NIGER (Go.)
ADDR.: B.P. 361, Niamey. **Cable:** Radioniger. **Te.:** 2271.
L.P.: Dir. B. Lucas. Asst. Dir. G. Sidikou. Dir. Tec. L. Vigié. Dir. Prgr. G. Robert.

STATIONS (System TRT):

kc	m	kW	Netw.	kc	m	kW	Netw.	kc	m	kW	Net
1511	198.4	1	I	5020	59.76	4	II	9710	30.90	4	II
4785	62.70	30	I	7105	42.22	30	I				

HOME SCE.: Netw. I: W 05.30–06.30 on 1511/4785 kc, 11.30–13.15 on 1511/7105 kc, 17.00–21.00 on 1511/4785 kc, Sun 07.00–16.30 on 1511/7105 kc, 16.30–21.00 on 1511/4785 kc.
Netw. II: W 05.30–06.30 on 5020 kc, 11.30–13.15 on 9710 kc, 17.00–21.00 on 5020 kc, Sun 07.00–16.30 on 9710 kc, 16.30–21.00 on 5020 kc.
N. in French (on both networks): 06.00, 12.00, 13.00, 17.02, 18.45, 20.55, Sat 21.55 – **N. in Vernaculars:** 12.15, 20.05 (Djerma on netw. I, Hausa on netw. II): 17.50, 18.10 (Djerma, Peulh on netw. I, Hausa, Bériberi on netw. II). **English:** Tues, Sat 18.30 – **Wrp.:** 18.45.
Prgr. III (for listeners in Niamey): W 06.30–11.00 on 5020 kc. **N. in French:** 07.30, 08.30, 09.30, 10.30 (This prgr. is not definit and may be changed from day to day).
ANN.: At opening and close down "La Nigerienne" Local flute and "Ici Niamey Radiodiffusion de la République du Niger".
INT.-SIG.: Local Flute.



V. by QSL-card – **F.PL.:** Mw. relay st's at NiGuigmi, Zinder, Maradi by end of 1962 – **PUB.:** Prgr. schedule (weekly).

NIGERIA (Federation of)

L.T.: GMT+1 h – **Pr. L.:** English, Yoruba, Hausa, Ibo.

THE NIGERIAN BROADCASTING CORPORATION (Statutory Corp.)
FI.: By state plus comm. revenue – **AD.:** 7 times per day, at 05.45, 06.24, 11.30, 12.15, 14.15, 17.45, 18.15.
ADDR.: Broadcasting House, Lagos. **Cable:** Broadc. **Te.:** 26411.
L.P.: Dir. Gen.: I. K. Mackay. Dir. Tec.: D. M T. Oke. Dir. External Broadc.: C. Achebe. Dir. Prgr.: E. V. Badejo. Dir. Adm.: H. N. Osakwe.

HOME SERVICES

NATIONAL PRGR. (From Lagos).
1458 kc 206 m 5 kW: 05.00–22.30 (Sat 23.00, Sun 05.00–22.00.
4990 kc 60.12 m 20 kW: 05.00–09.00, 14.00–22.30 (Sat 23.00, Sun 05.00–09.00, 14.00–22.00.
7255 kc 41.35 m 20 kW: 08.00–16.00 (Sun 08.00–22.00).
N.: English: 05.30, 06.00*, 07.00, 09.00, 10.00, 11.00, 12.00*, 13.00, 14.00*, 15.00, 16.00, 17.00, 18.00*, 19.00, 20.00*, 21.00, 22.00. *)10 min. newscast, other times 3 min. news-summary.
N. in Hausa, Ibo, Yoruba: 08.00, 17.30, 21.03.

WEST REG. PRGR. (from Ibadan):

1358 kc	221 m	10	kW:	as Lagos 1458 kc	
1397[1]) kc	215 m	0.25	kW:	as Lagos 1458 kc [1])=Ijebu-Ode, Warri.	
3204 –	93.64 –	5	– :	Mo-Fri 05.00–07.00, 16.45–22.30, Sat 05.00–07.08, 16.45–23.00, Sun 05.00–07.08, 16.45–22.00.	
7285 –	41.18 –	1	– :	D 07.15–16.30.	

N. in English, Yoruba: 13.30, 19.00.

EAST REG. PRGR. (from Enugu):

1320 kc	227 m	10	kW:	05.00–22.30 (Sat 23.00, Sun 05.00–22.00)
1397[2]) –	215 –		:	as 1320 kc [2])=Onitsha, P. Harcourte
1400[3]) –	214 –	0.25	– :	as 1320 kc [3])=Calabar
3980 –	75.38 –	2.5/5	– :	16.45–22.30 (Sat 23.00).
6145 –	48.82 –	2.5/5	– :	07.15–16.30.

N. in English, Ibo, Efik: 14.30, 19.00.

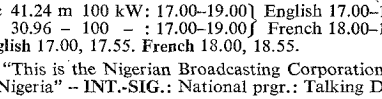
NORTH REG. PRGR. (from Kaduna):

1416 kc	212 m	1	kW:	05.00–22.45 (Sat 23.15, Sun 22.15).
1376[4] –	218 –		:	05.00–22.30 (Sat 23.15, Sun 22.35).
1396[5] –	214 –		:	05.00–22.30 (Sat 23.15, Sun 22.35).
3326 –	90.20 –	7.5/20	– :	05.00–08.00, 16.45–22.45 (Sat 23.15, Sun 22.15).
3396 –	88.36 –	10	– :	16.45–22.45 (Sat 23.15, Sun 22.15).
6175 –	48.58 –	20	– :	07.30–16.30.
9655 –	31.07 –	10	– :	09.30–16.30.

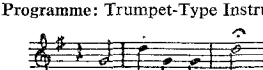
[4])=Kano. [5])=Jos, Sokoto, Ilorin, Maiduguri, Zaria, Katsina.
N. in English, Hausa: 14.30, 19.00.

EXTERNAL SERVICE to West & Central Africa (from Lagos):
7275 kc 41.24 m 100 kW: 17.00–19.00 } English 17.00–18.00.
9690 – 30.96 – 100 – : 17.00–19.00 } French 18.00–19.00.
N.: English 17.00, 17.55. **French** 18.00, 18.55.

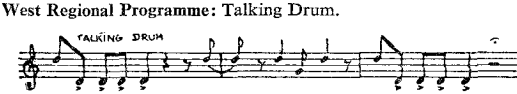
ANN.: "This is the Nigerian Broadcasting Corporation" or "This is Radio Nigeria" – **INT.-SIG.:** National prgr.: Talking Drum.



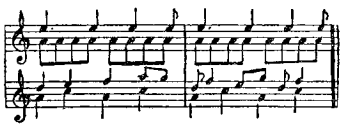
North Regional Programme: Trumpet-Type Instrument.



West Regional Programme: Talking Drum.



East Regional Programme: Snake Drum-Xylophone Bass.



V. by QSL-card. Re. will be welcomed by Chief Engineer – PUB.: Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on a subscription basis.

EASTERN NIGERIA BROADCASTING CORPORATION

(Statutory Corpo. & Comm. Adverts)
ADDR.: P.O. Box 350 Enugu. Cable: Easteller. Te.: 2579 – L.P.: Gen. Mgr.: (Acting): K. Okoronkwo. Dir. Pec: R. B. Matthias.
STATIONS: 953 kc 315 m 10 kW – 4855 kc 61.79 m 10 kW
HOME SCE.: W 05.00–23.00. Sun 06.00–22.00.
N.: English: 06.00, (BBC), 1100 (BBC), 13.00 (BBC).
ANN.: "This is the Eastern Nigeria Broadcasting Service" or "This is the Voice of Eastern Nigeria" – INT.-SIG.: Drum (repeated) – V. by letter.

WESTERN NIGERIA RADIOVISION SERVICE LTD.

(Comm.)
FI.: 100% from We. Reg. Go. of Nigeria – AD.: D 6 min. each h.
ADDR.: Television House, P.O. Box 1460, Ibadan. Cable: Radvision. Te.: 24381 – L.P.: Man. Dir.: O. Ibukun. Chief Eng.: H. G. Toombs. Contr. Prgr's: St. Rhodes.
STATIONS:
Abafon 602 kc 498 m 10 kW – Ibadan 3380 kc 88.70 m 10 kW
Ibadan 656 – 457 – 10 – – Ibadan 6185 kc 48.50 m
HOME SCE.: W 05.00–23.05 (Sat 23.05). Sun 06.00–22.05 – N. in English: 05.30, 06.00, 07.00 (BBC), 17.00 – N. in Yoruba, Efik, Hausa: 15.00.
ANN.: "This is the Western Nigeria Broadcasting Service" or "This is WNBS, Ibadan" – V. by QSL-card or letter. Re. to Chief Eng.

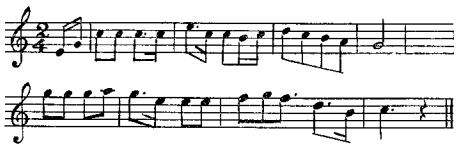
RADIO KADUNA (Comm.)

FI.: By commercials but subsidised – ADDR.: P.O. Box 250, Kaduna, No. Nigeria. Cable: Radionorth. Te.: 3236 – L.P.: Man. Dir.: L. A. Diamond. Chief Eng.: R. Sharpe.
STATIONS: (Systems: M.W.T.Co, Brown Boveri)
940 kc 319.1 m 10 kW – 6090 kc 49.26 m 10 kW
3235 – 92.74 – 10 – – 9570 – 31.35 – 10 –
HOME SCE. in English, Hausa: 16.00–22.00 on 940/6090 kc – N.: 17.00, 21.00, 21.45.
ANN.: "This is R. Kaduna, the Broadcasting Co. of Northern Nigeria" – INT.-SIG.: Bauchi Drums – V. by letter – F.PL.: 250 kW m.w.-tr. to commence operation March 63.

REDIFFUSION (NIGERIA) LTD., a subsidiary of Rediffusion Ltd., London, (Non Comm.) – FI.: by subscription charges – ADDR.: (a) P.O. Box 3156, Oke Are, Ibadan, W. Nig. Cable: Broadrelay Ibadan. Te.: 2016. (b) 23 Clifford St., Ebute Metta, Lagos. Cable: Broadrelay, Lagos. Te.: 44257 – L.P.: Gen. Mgr.: E. L. Turner – Wired broadcasting networks in Lagos, Ibadan and 90 towns and villages in the Western Region of Nigeria. Rel. the prgrs. of the Nigerian Broadcasting Corp. D 05.00–23.00(Sat 24.00).

REUNION (French)

L.T.: GMT+4 h – Pr. L.: French.
RADIO REUNION (R. diff. Télévision Française)
ADDR.: B.P. 309, St. Denis, La Reunion. Te.: 868 – L.P.: Chef des Services: B. Guyot. Dir. Tec.: H. Pottier.
STATIONS:
620 kc 483.9 m 8 kW – 3380 kc 88.76 m 8 kW – 7245 kc 41.41 m 4 kW.
HOME SERVICE in French:
W 02.30–03.45 on 620, 3380 kc; 08.00–09.30 on 620, 7245 kc; 14.00–18.00 on 620, 3380 kc. Sun 04.00–13.00 on 620, 7245 kc; 13.00–18.00 on 620, 3380 kc.
N.: W 02.30, 03.30, 08.30, 14.07, 16.00. Sun 04.15, 08.30, 16.45 – Wrp.: W 03.30, 14.07, 16.00. Sun 04.15, 14.00, 16.45.
ANN.: "Ici la Réunion, Radiodiff. Télévision Française" – V.: by letter. Rp. – INT.-SIG.: "Madina (Reunion Folklore) played on guitar.



RHODESIA and NYASALAND

L.T.: GMT+2 h – Pr. L.: English, African, Vernaculars.
THE FEDERAL BROADCASTING CORPORATION OF RHODESIA & NYASALAND
(Indep. statuory body, established by Federal Act of Parliament).
FI.: By State, license payments and adv. – AD.: Max. 10 min. per h and 15% of total daily tr. h – ADDR.: Northern House, Baker Avenue, P.O. Box 2696, Salisbury. Cable: Broadcasts. Te.: 25685.
L.P.: Chairman of Board: The Hon. Sir. R. Hudson. Dir. Gen.: J. McClurg. Dep. Dir. Gen.: C. K. Grierson-Rickford, Contr. Gen. Sce.: J. H. Parry, O.B.E. Contr. African Sce.: C. Sapseid. Dir. Tec.: J. M. Reeves, M.I.E.E., M.I.R.E.

STATIONS: (Systems: Marconi, Philips):
Medium Waves:

Location	kc	m	kW	Prgr.	Location	kc	m	kW	Prgr.
Salisbury	584	514	2	G/C	Umtali	980	306	2	G/C
Bulawayo	611	491	2	G/C	Kitwe	995	302	20	"A"
Gwelo	680	441	2	G/C	Blantyre	1230	244	0.3	"N"
Gatooma	791	379	2	G/C	Que Que	1255	239	0.175	G/C
Kitwe	746	402	20	G/C	Bulawayo	1340	224	2	"C"
Salisbury	890	337	2	"C"	Lusaka	1376	218	2	"A"
Lusaka	962	312	2	G/C					

Short Waves: *)inactive.

Location	kc	m	kW	Prgr.	Location	kc	m	kW	Prgr.
Gwelo	2425	124.1	2.5	G/C	Lusaka	4965	60.42	2.5	"A"
Lusaka	3295	91.00	2.5	"A+B"	Gwelo	6020	49.83	20	G/C
Gwelo	3306	90.70	10	"C"	–	7175	41.81	10	"C"
–	*3334	90.00	2.5		Lusaka	7220	41.55	20	"A"
–	3396	88.36	20	G/C	–	7285	41.18	10	G/C
Lusaka	*3346	89.60	20		Gwelo	9505	31.56	2.5	G/C
Zomba	3955	75.80	10	"D"	Lusaka	9570	31.35	2.5	"A"
Lusaka	4828	62.12	15	"A+B"	–	*11822	25.36	2.5	
–	4911	61.08	10	G/C	–	*11882	25.25	2.5	

G/C=General & Commercial Service; A,B,C,D=African prgr's (A+B=No. Region, C=So. Region, D=Nyasaland Region).

HOME SERVICES
GENERAL and COMMERCIAL SCE'S:
General Sce.: W 10.00–12.00, 15.00–21.00 (Sat 22.00), Sun 06.00–12.00, 14.00–20.15.
3396 kc: W 15.00–20.00, Sat 14.00–20.00, Sun 14.00–20.15 – 6020/7285 kc: W 10.00–12.00, Sun 06.00–12.00 – 9505 kc: W 10.00–12.00, 14.00–16.15, Sun 06.00–12.00, 14.00–16.15.

Commercial Sce.: W 04.00–10.00, 20.00–21.05 (Sat 22.00).
3396 kc: W 04.00–05.45, 20.00–21.05 (Sat 22.00) – 4911 kc: W 04.00–06.30, 20.00–21.05 (Sat 22.00) – 6020 kc: W 05.45–10.00 – 7285 kc: W 06.30–10.00 – 9505 kc: W 05.45–10.00.
N.: W 04.00, 05.00, 06.00*, 08.00, 10.10, 11.00*, 11.10, 16.00*, 18.00, 20.00. Sun 06.00*, 08.00, 11.00*, 16.00*, 18.00, 20.00.
*)relay BBC – Wrp.: W 04.10, 05.10, 11.15 (Wet season only), D 15.59, 17.55.

AFRICAN SERVICE
Lusaka (A) W 04.00–06.10 on 4828/7220 kc, 10.00–14.30 on 7220/9570 kc, 14.30–14.45 on 7220 kc, 14.45–15.45 on 4965/7220 kc, 15.45–16.00 on 4965 kc, 16.00–20.00 on 3346/4965 kc. Sun 10.57–14.30 on 7220/9570 kc, 14.30–14.45 on 7220 kc, 16.00–20.00 on 3346 kc. Lusaka (B): D 14.00–20.00 on 4828 kc – Gwelo (C): W 04.00–06.10 on 3306 kc, 10.00–14.45 on 7175 kc, 14.45–20.00 on 3306 kc. Sun 10.57–14.45 on 7175 kc, 14.45–20.00 on 3306 kc – Zomba (D): D 14.00–20.00 on 3955 kc.
N. in English (National): 04.00 (W), 05.00 (W), 06.00*, 08.00 (Sun), 10.10 (W), 11.00*, 11.10, 16.00*, 18.00 *)relay BBC.

ANN.: General/Comm. Sce.'s: "This is the Federal Broadcasting Corporation of Rhodesia & Nyasaland".
African Service: [1]) "This is the Federal Broadcasting Corporation of Rhodesia & Nyasaland". – [2]) (Lusaka) "Kuno ndi FBC ku Lusaka" ("A" & "B") – [3]) ("C" Prgr.) "Leyi Southern Region yi FBC African Service". – "Ino i Southern Region ye FBC African Service". – [4]) ("N" Prgr.) "Kuno ndi FBC ku Blantyre Nyasaland. – INT.-SIG.: African Sce.: Kalimba Xylophone, Drums.
V. by QSL-card. Re. wanted from C. & S. Africa.

RWANDA (Republic)

L.T.: GMT+2 h – Pr.L.: Kinyarwanda.
RADIO RWANDA (Go.)
ADDR.: B.P. 83, Kigali.
HOME SCE. in Kinyarwanda & French: 6050 kc 49.59 m 5.6 kW: 09.30–11.30, 15.30–20.30 – N. in French: 10.15, 18.00. N. in Kinyarwanda: 09.45, 10.45, 17.00 – ANN.: F: "Voues etes à l'ecoute de R. Rwanda" – V. by QSL-card. Prgr.schedule free on request.

SAO TOMÉ E PRINCIPE (Port W.Africa)

L.T.: GMT – Pr.L.: Portuguese.

R. CLUBE DE SAO TOMÉ (Comm.)
ADDR.: Av. Infante D. Henrique, São Tome – L.P.: Pres.: A. Barbosa Lobo.
STATION: CR5SC 4807 kc 62.41 m 1 kW
HOME SCE.: 19.00–21.30 – V. by QSL-card and folder.

SENEGAL (Republic)

L.T.: GMT – Pr. L.: French, Ouolof, Sérère, Toucoulour.

RADIODIFFUSION DU SENEGAL (Go.)
FI.: By Go. and adv. – ADDR.: B.P. 1765, Dakar. Cable: Radio Senegal. Te.: Standard 32072 – L.P.: Dir. of Press, Information and Broadc.: G. Fall.
STATIONS:

kc	m	kW	Netw.	kc	m	kW	Netw.	kc	m	kW	Netw.
1304	230.0	8	II	4890	61.95	4	II	5960	50.34	25	I
1538	196.0	10	I	4950	60.60	25	II	5975	50.24	4	I

INTERNATIONAL NETWORK (Dakar I):
W 06.30–08.00 on 1538/4950 kc, 12.00–14.00 (Sat 18.00) on 1538/5960 kc, 18.00–23.30 on 1538/4950 kc, Sun 08.15–18.00 on 1538/5960 kc, 18.00–23.30 on 1538/4950 kc.
N.: French: W 06.30, 07.55, 13.00, 13.55, 19.00, 20.00, 23.30.
English: D 19.05. Portuguese: D 19.10. Arabic: D 18.15. Bambara: D 18.25. Quiz Prgr.: Tues 21.30.
NATIONAL NETWORK (Dakar II):
W 06.30–08.00 on 1304/4890 kc, 12.30–14.00 (Sat 18.00) on 1304/5975 kc, 18.00–23.00 (Sat 24.00) on 1304/4890 kc, Sun 08.00–18.00 on 1304/5975 kc, 18.00–23.00 on 1304/4890 kc.
N.: French: W 13.00, 20.00. Vernaculars: D 17.35, 17.55, 18.15, 18.35, 18.55, 19.15 – L.L.: (in English, Arabic, French) W 19.35.
ANN.: F.: "Ici Radio Sénégal, Chaîne International (or National) émettant sur..." – INT.-SIG.: Melody on "Khora" (local harp) – V. by QSL-card – F.PL.: Television early 1963.

SEYCHELLES (British)

L.T.: GMT+4 h – Pr.L.: English, French, Creole.

SEYCHELLES BROADCASTING SERVICE (Go.)
FI: By Go. and U.K. Colonial Development and Welfare Funds – ADDR: Dept. of Tourism & Inf., P.O. Box 92, Victoria. Cable: Tourism. Te.: 447 L.P.: Dir.: D. J. Knox. Prgr. Supervisor: Mrs. V. Cahill. Dir. Tec.: B. Ward.
STATION: ZCQ3 4990 kc 60.12 m 0.04 kW.
HOME SCE.: D 14.15–16.15 – N. (BBC): 16.00 – ANN.: E.: "This is R. Seychelles" – V. by letter.

SIERRA LEONE

L.T.: GMT – Pr.L.: English, Mende, Temne, Krio.

SIERRA LEONE BROADCASTING SERVICE (Go.)
FI.: By state, license payments and adv. – AD.: Partially in the Relay Sce. only. Comm. adv. inevitable – ADDR.: New England, Freetown, Sierra Leone. Cable: Broadcasts. Te.: 3051-9 – L.P.: Dir. of Broadc.: J. J. Akar. Chief Eng.: A. H. Khanu.
STATIONS:
1200 kc 250.0 m 10 kW – 3316 kc 90.46 m 5 kW – 5980 kc 50.17 m 5 kW
HOME SCE.: 08.00–23.00 – N. English: BBC: 07.00, 20.00. Local: 06.35, 20.10. Vernaculars: 06.45, 18.00.
ANN.: "This is the Sierra Leone Broadcasting Service" – INT.-SIG.: "The rain is coming" played by Military Band – V. by letter.

SOMALI REPUBLIC

L.T : GMT+3 h – Pr L.: Somali, Italian, Arabic, English.

NATIONAL BROADCASTING STATION (Go.)
ADDR.: Radio Mogadiscio, Mogadiscio. Te.: 444 – L.P.: Dir.: A. S. Harato.
STATIONS: 4970 kc 60.36 m 0.25 kW – 7150 kc 41.96 m 5 kW
HOME SCE.: 09.30–11.00, 13.00–15.30, 16.30–19.00.
ANN.: Italian: "Transmette Mogadiscio".

RADIO SOMALI (Go.)
ADDR.: P.O. Box 14, Hargeisa, Northern Region. Cable: Informat.
L.P.: Minister of Inf.: A. M. Hirabe.
STATIONS: 4797 kc 62.54 m 10 kW – 9675 kc 31.01 m 5 kW
HOME SCE.: D 13.30–17.30 – Somali: 13.30–15.30, 16.30–17.30. N.: 14.15, 17.00 – Mbg.: Sun 15.45 – English: 15.30–16.30. N.: 16.00.
ANN.: "Halkan Waa Hargeisa. Radio Somali" ("This is Hargeisa, Radio Somali") – INT.-SIG.: March – V. by photographic QSL. Re. from Somali-speaking audience only.

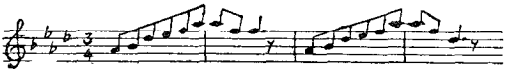
BBC – EAST AFRICAN RELAY: Relays BBC Arabic Sce., G.O.S. & to E. Africa (Swahili) Special Sce. on 701 kc 428.0 m 400 kW.

The Horn of Africa Ea. Africa Ethiopia, Sudan and So. Arabia	Arabic Sce.: 03.45–05.45, 11.00–15.45, 16.15–21.00. G.O.S.: 05.45–07.25, 09.15–09.45. Swahili: 03.30–03.45, 10.00–10.15, 15.45–16.15.

SOMALILAND (French)

L.T.: GMT+3 h – Pr. L.: French, Somali, Afar, Arabic.

RADIO-DJIBOUTI (Radiodiffusion Télévision Française).
ADDR.: B.P. 97, Djibouti. Cable: Radiodiffusion. Te.: 177 – .
L.P.: Dir.: J. Varnoux. Engineer: L. Sébastien.
STATIONS (System TRT):
1538 kc 195.0 m 4 kW – 4780 kc 62.76 m 4 kW – 6000 kc 50.00 m 1 kW.
HOME SERVICE: 1538 kc: 03.30–04.30, 08.00–10.00, 14.00–20.00. 4780 kc: morning+evening – 6000 kc: daytime.
French: 03.30–04.00, 09.00–09.30, 17.00–19.00 – N.: 03.45, 09.15, 17.15 – Afar: 08.30–09.00, 15.15–16.30. N.: 08.45, 16.15 – Somali: 08.00–08.30, 14.00–15.15. N.: 08.15, 15.00 – Arabic: 04.00–04.30, 09.30–10.00, 16.30–17.00, 19.00–20.00 – N.: 04.05, 09.45, 16.30, 19.00.
ANN.: F.: "Ici Djibouti, Radiodiffusion-Télévision Française". Afar: "Ah Djibouti Radio". Arabic: "Houna Djibouti dar el Iza'a, el Francia lil Radio-wal Television". Somali: "Al kani wa Radio-Djibouti" – INT.-SIG.: Extrait de la "Suite Francaise" de D. Milhaud – V. by letter. Rp.



SOUTH AFRICA (Republic)

L.T.: GMT+2 h – Pr.L.: English, Afrikaans, Bantu.

S. AFRICAN BROADCASTING CORPORATION
(Indep. Org.) – FI.: By license payments and adv. – ADDR.: P.O. Box 8606, Johannesburg. Cable: Broadcast. Te.: 231151.
L.P.: Chairman: Dr. P. J. Meyer. Dir. of Comm. Sce's and Legal Adviser: J. P. A. van der Walt. Chief Eng.: H. O. Collett. Public Relations Dept.: J. J. Kruger. Head Afrikaans Sce.: M. M. van Lille. Head English Sce.: H. J. Howell. Head Comm. Sce.: W. S. P. Hanekom.
HOME SERVICES:
National Medium-Wave Stations: 0.5/1/2/5/10 kw.

	ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
Johannesburg:	638 kc 470 m	719 kc 417 m	575 kc 522 m
West Rand	1034 – 290 –	827 – 363 –	1286 – 233 –
East Rand	1439 – 208 –	1097 – 273 –	1268 – 236 –
Pretoria	674 – 445 –	593 – 506 –	782 – 384 –
Bloemfontein	1070 – 280 –	1241 – 242 –	962 – 312 –
Kimberley	620 – 484 –	701 – 428 –	809 – 371 –
Grahamstown	1313 – 228 –	1043 – 288 –	1178 – 255 –
Port Elizabeth	1025 – 293 –	1151 – 261 –	908 – 330 –
East London	656 – 457 –	557 – 539 –	728 – 412 –
Cape Town	566 – 530 –	692 – 433 –	800 – 375 –
Durban	764 – 392 –	665 – 451 –	845 – 355 –
Pietermaritzburg	1115 – 269 –	863 – 348 –	989 – 303 –
Pietersburg			
FM-Stations:			
Johannesburg	95.51 Mc	91.56 Mc	99.47 Mc
Welverdiend	93.71 –	89.75 –	97.66 –
Rustenburg	102.99 –	106.95 –	95.08 –
Pretoria	88.98 –	104.80 –	92.93 –

D. PRGR.: English and Afrikaans Services: D 03.30–21.15 (incl. Bantu Prgr.'s W 03.30–04.30, 07.30–08.00) – N. in English: 05.00, 06.00, 09.00, 11.15, 16.00, 17.15, 19.00, 21.00 – N. in Afrikaans: 04.45, 06.00, 09.00, 11.15, 14.00, 16.00, 17.00, 19.00, 21.00.
D. PRGR.: Commercial Service (Springbok Radio): W 03.00–22.00. Sun 05.00–21.00. (Remains on the air from Fri 03.00 until Sat 22.00).
National Shortwave Stations (Paradys): 20 kw.

ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
2346 kc 128.0 m	2326 kc 129.5 m	2306 kc 130.5 m
3316 – 90.47 –	3376 – 88.89 –	3250 – 92.31 –
4810 – 62.37 –	4895 – 61.29 –	4945 – 60.67 –
6005 – 49.96 –	6095 – 49.22 –	6150 – 48.78 –
7230 – 41.49 –	7275 – 41.24 –	7185 – 41.76 –
9650 – 31.09 –	9525 – 31.50 –	9720 – 30.86 –

English Sce.: On 3316 kc: 04.00(Sun 05.30)–06.30, 16.15(Sun 16.04)–21.15(Sat 22.00); On 4810 kc: 04.00(Sun 05.30)–07.30, 15.00(Sun 15.48)–21.15(Sat 22.00); On 6005 kc: 06.30–16.15(Sun 16.04); on 7230 kc: 04.45(Sun 05.30)–15.00(Sun 15.48); On 9650 kc: 07.30–09.35 (Sun 10.00).
Afrikaans Sce.: On 3376 kc: 04.00(Sun 05.30)–06.15, 16.35 (Sat/Sun 16.30)–21.15(Sat 22.00); On 4895 kc: 04.00–07.15(Sun 05.30–07.00),

15.35(Sun 16.15)–21.15(Sat 22.00); **On 6095 kc:** 06.15(Sun 06.12)–16.35(Sat/Sun 16.30); **On 7275 kc:** 04.35–15.35(Sat 16.18) (Sun 05.30–16.15); **On 9525 kc:** 07.15–10.00(Sat 09.40) (Sun 07.00–10.45).
Comm Sce.: On 2306 kc: W 03.00–04.30, Fri 22.00–24.00. **On 3250 kc:** 03.00(Sun 05.00)–06.00, 16.00–22.00(Sun 21.00); **On 4945 kc:** 04.30–07.00 (Sun 05.00–06.35), 15.15(Sat/Sun 15.30)–22.00(Sun 21.00); **On 6150 kc:** 06.00–16.00. **On 7185 kc:** 04.30(Sun 05.00)–15.15(Sat/Sun 15.30). **On 9720 kc:** 07.00(Sun 06.35)–09.45(Sun 10.28).
FM-SERVICES in Sotho, Tswana, Zulu.

Station	So. Sotho	No. Sotho	Tswana	Zulu
Johannesburg	103.42 Mc			107.38 Mc
Welwerdiend	101.62 –		105.57 Mc	
Rustenburg			99.04 –	
Pretoria		96.89 Mc	100.84 –	96.89 –

The So. Sotho prgr. is also broadcast from 08.00–15.00 over the stations of the Tswana Sce. [1]) only 08.00–15.00.
AFRICA SERVICE: International St. at Paradays near Bloemfontein.
STATIONS: 20 kW.

6150 kc	48.78 m	11865 kc	25.28 –	15080 kc	19.90 –
7275 –	41.24 –	11900 –	25.21 –	21690 –	13.83 –
9525 –	31.50 –				

03.00–04.00 on 6150/7275 kc, 10.00–15.20 on 11865/21690 kc, 15.20–17.15 on 11865/15080 kc, 17.15–20.20 on 11900/15080 kc, 20.20–21.15 on 9525/11900 kc. On Sun the Africa Sce. is aired at 11.00–21.00 only.
N. in French: Mo-Fri 16.05–16.10 – **English:** Tues, Thurs, Sat – **Afrikaans:** Mo, Wed, Fri.
ANN.: E. "This is R. South Africa". Afrikaans: "Dit is R. Suid Afrika". Comm. Sce.: "This is Springbok Radio". –
Afrikaans Sce.: 04.28: "Vêr in die Wêreld Kittie" (Folksong). **Comm. Sce.:** (02.57): First three notes of "Pak jou goed en trek Ferreira" – V. by QSL-card for all Services – **PUB.:** "SABC Radio Bulletin".
F.PL.: New fq's: 3952 or 3955, 3977, 3997 kc will be used during May-September 1963 in the English, Afrikaans and Comm. Sce's.

ORLANDO REDIFFUSION SERVICE (Pty.) LTD., a subsidiary of Rediffusion Ltd., London. (Non-Comm.) – **FI.** by subscription charges. – **ADDR.:** 214 Geldenhuys, 33 Jorissen St., Braamfontein, Johannesburg. **Cable:** Redifsa, Johannesburg. **Te.:** 22-6249 – **L.P.:** Mgr.: R. D. Ramsay – Wired broadcasting network in Orlando and Javabu. Rel. prgrs. specially provided by S.A.B.C. – Exclusive Bantu prgrs. in Zulu, Xotho, Xhosa. Relays of English and Afrikaans sce.'s.

SUDAN

L.T.: GMT+2 h – **Pr.L.:** Arabic, English.
SUDAN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 572, Omdurman. **Cable:** Izaa – **L.P.:** Senior Controller Broadc.: Major El tag Hamad.
STATIONS: m.w. 50 kW, s.w. 7.5/20 kW.

575 kc	521.7 m	–	6150 kc	48.78 m	–	11855 kc	25.31 m
5039 –	59.53 –	–	7200 –	41.67 –	–	15720 –	19.08 –
5995 –	50.04 –	–	9508 –	31.55 –	–	17890 –	16.77 –

Arabic: D 04.15–11.30, 12.30–13.00, 14.00–15.00 on 575/5039/9508/11855 kc, 15.00–21.00 on 575/5039/7200/9508 kc – **Local Prgr. for So. Sudan:** D 13.00–14.00 on 575/5039/9508/11855 kc – **European Prgr. (English):** D 11.30–12.30 on 575/5039/9508/11855 kc.
ANN.: Arabic: "Huna Omdurman". English: "This is the Sudan Broadcasting Service" – V. by letter.

TANGANYIKA

L.T.: GMT+3 h – **Pr.L.:** Kiswahili, English.
TANGANYIKA BROADCASTING CORP. (Indep.-Comm.)
FI.: In part grant in aid by Go. – **AD.:** Swahili and English spot channels together with sponsored prgr.s in both languages: D 03.30–04.00, 14.45–16.15, 16.30–17.00.
ADDR.: Broadcasting House, Box 9191, Dar es Salaam. **Te.:** 63342. **Cable:** Sauti – **L.P.:** Dir. Gen.: M. B. Mdoe. Dir. Prgr.: M. Kiama. Dir. Tec.: R. Williams. Dir. Adm.: S. T. Chilunda.
STATIONS (Systems: Marconi, RCA, Redifon):

kc	m	kW	Prgr	kc	m	kW	Prgr
836	359.0	1.25		4845	61.92	10	
1025	292.7	1.25	2nd	*4909	61.12	10	
1250	240.0	1.25	Nat.	5050	59.41	20	Nat.
*1250	240.0	0.25		7165	41.87	20	Nat.
3251	92.28	5	Nat.	7280	41.21	10	2nd
3990	75.19	10		9530	31.48	10	
4785	62.70	10	2nd				

* Mwanza. Other st's Dar es Salaam.
HOME SERVICE: National Prgr. (Kiswahili): D 03.15–05.00, 09.00–11.00, 13.30–19.00 – 836 kc: as above – 3251 kc: 03.15–05.00, 16.00–19.00 – 5050 kc: 03.15–05.00, 13.30–19.00 – 7165 kc: 09.00–11.00. **N.:** 04.00, 10.00, 17.00, 18.55 – **Wrp.:** After N. 17.00.
2nd Prgr. (English): D 09.00–11.00, 15.30–19.30 – 1025 kc: as above – 4785 kc: 15.30–19.30 – 7280 kc: 09.00–11.00 – **N.:** 09.15, 17.00, 19.25.
3rd Prgr. (Educational) in Swahili & English: 16.00–18.00 on 1250/3251 kc – **N. in Swahili:** 17.00.
ANN.: E.: "This is TBC" or "This is the Tanganyika Broadcasting Corporation". **Kiswahili:** "Hii Ni Sauti Ya Tanganyika.

INT.-SIG.:
Celeste:

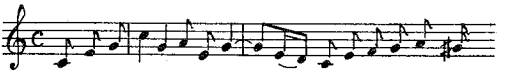
V. by QSL-card. Rp – **F.PL.:** Third Prgr.

TCHAD (Rep.)

L.T.: GMT+1 h – **Pr.L.:** French, Arabic, Sara.
RADIO-TCHAD (Go.)
ADDR.: B.P. 168, Fort Lamy. **Cable:** Radio Tchad. **Te.:** 158.
L.P.: Dir.: P. Mabbe. Dir. Tec.: V. Amariglio.
STATIONS: 1538 kc 195.0 m 1 kW – 4904 kc 61.18 m 30 kW 6165 kc 48.66 m 30 kW – 9615 kc 31.20 m 4 kW
HOME SCE.: W 05.00–06.00 on 1538/4904 kc, 11.00–14.00 on 1538/6165/9615 kc, 16.00–21.00 on 1538/4904 kc. Sun 05.00–07.00 on 1538/4904 kc, 07.00–16.30 on 1538/6165 kc, 16.30–21.00 on 1538/4904 kc.
French: 05.20–05.40, 12.00–13.00, 19.00–21.00 – **N.:** 12.30, 19.00, 20.55 – "Sport & Music" (rel. Paris): Sun 14.00–17.00 – **Arabic:** 05.00–05.20, 13.00–13.30, 18.00–19.00 – **Sara:** 05.40–06.00, 13.30–14.00, 17.00–18.00.
ANN.: "Ici Fort Lamy, Radiodiffusion du Tchad émettant dans les bandes..." or "Ici Fort Lamy, Radiodiffusion du Tchad" – **INT.-SIG.:** French (open and close down): Marseillaise – Arabic: Notes played on lute (local) – Sara: Notes played on "balaons" (local) – V. by QSL-card. Rp.

TOGO (Republic)

L.T.: GMT – **Pr.L.:** Ewe, Cabrais, Cotocolis, Haoussa, Moba, Bassari.
RADIODIFFUSION DU TOGO (Go.)
ADDR.: B.P. 434, Lomé. **Te.:** 2492. **Cable:** Radio Togo.
L.P.: Dir.: G. Ekue. Dir. Tec.: T. Mensah-Boboe.
STATIONS (System TRT):
1394 kc 215.0 m 1 kW – 5047 kc 59.44 m 4 kW – 6155 kc 48.74 m 4 kW
HOME SCE. in French, Vernaculars: W 05.30–08.00 on 1394/5047 kc, 12.00–13.30 on 1394/6155 kc, 17.30–22.30 on 1394/5047 kc. Sat 05.30–08.00 on 1394/5047 kc, 12.00–15.00 on 1394/6155 kc, 15.00–23.00 on 1394/5047 kc. Sun 07.00–10.00 on 1394/5047 kc, 10.00–15.00 on 1394/6155 kc, 15.00–23.00 on 1394/5047 kc.
N.: French: 05.30(W), 06.30(W), 07.00(Sun), 07.30(Sun), 12.30, 19.30, 22.00 – **Wrp.:** 06.55, 08.00 – **Vernaculars:** W 06.00, 13.00, 17.30, 19.00 – **English:** 21.00 – **L.L.:** (English) W 06.40.
INT.-SIG.:



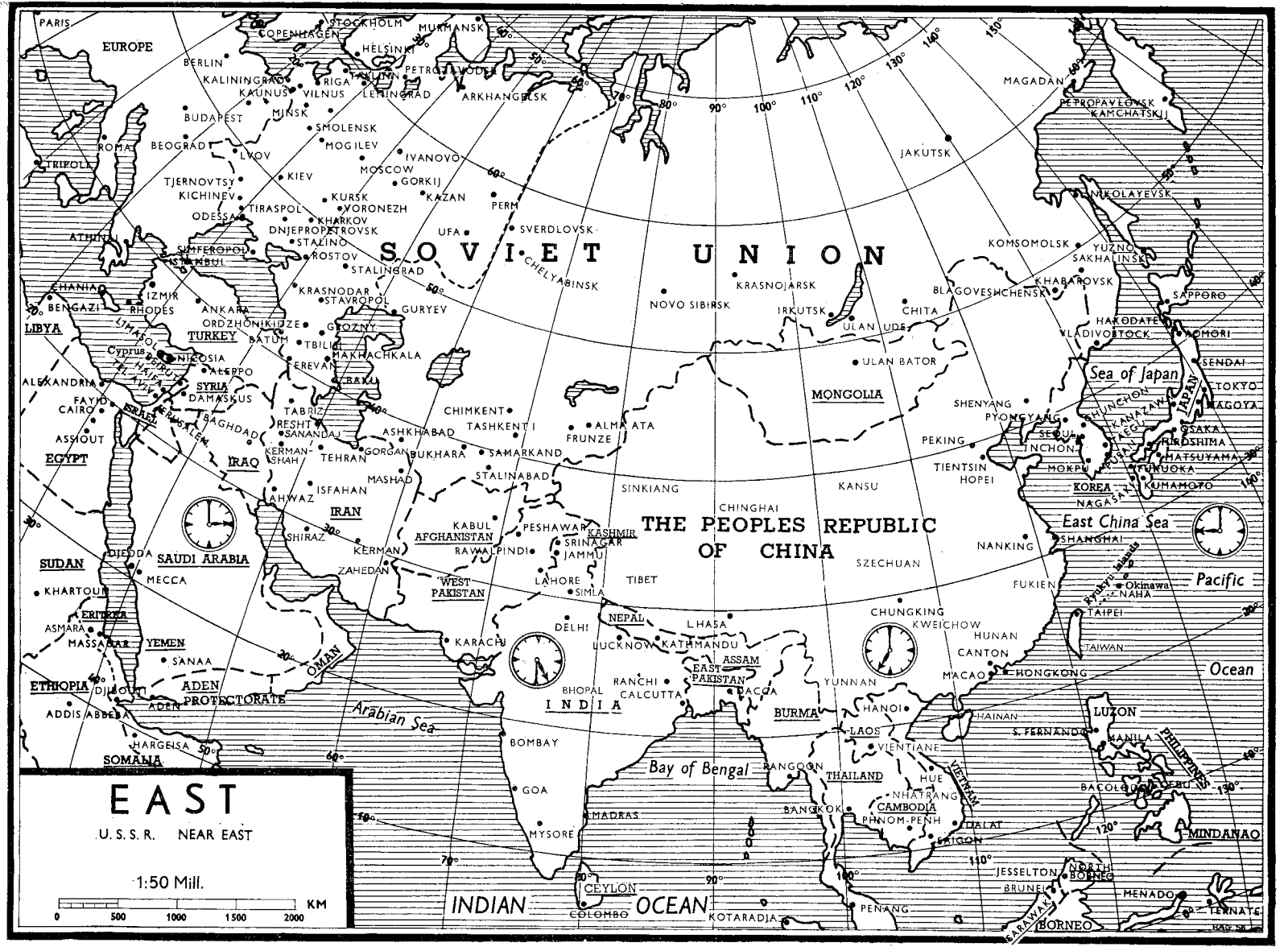
ANN.: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais – V. by QSL-card or letter. Rp. – **F.PL.:** 100 kW tr. before April 1st 1963 – **PUB.:** prgr.sched. (weekly).

TUNISIA

L.T.: GMT+1 h – Pr.L.: Arabic.
RADIODIFFUSION TÉLÉVISION TUNISIENNE (Go.)
FI.: By state and license payments – **ADDR.:** 139, Avenue de Paris, Tunis. **Te.:** 259.311 – **L.P.:** Dir. Gen.: C. Klibi. Dir. Tec.: M. Chaffai. For. Rel.: M. Fersi.

HOME SERVICE

ARABIC NETWORK: D 04.28–23.25. Tunis I 629 kc 477 m 600 kW – **FM:** 88, 96.3 Mc (0.05/0.3 kW). Tunis I 6110 kc 49.10 m 50 kW*) – 11970 kc 25.06 m 50 kW**) – 17845 kc 16.81 m 50 kW**).
*) non directional. **) to East.
N., Wrp.: 05.45, 06.30, 07.25, 11.00, 12.00, 13.30, 16.00, 17.00, 18.00, 19.00, 21.00, 23.00.
FRENCH NETWORK: W 04.58–08.00, 11.28–14.00, 16.00–22.00 (Fri/Sat 11.28–22.00). Sun 05.38–22.00.
Tunis II 962 kc 312 m 100 kW – **FM:** 90.1 Mc 0.05 kW.
N., Wrp.: 05.30, 06.45, 11.00, 12.15, 17.00, 18.30, 21.30.
R. Sfax: 605 kc 495.9 m 5 kW: relay Tunis I or reg. prgr.'s.
FOREIGN SERVICE in Arabic: 04.28–17.00 (experimental) on 11970 kc (relay Tunis I) to M. East/Morocco.
ANN.: Arabic: "Huna al ida'a att Thunissia". **French:** "Ici Tunis Radiodiffusion Télévision Tunisienne" – V. by QSL-card – **Re.:** in English or French – **PUB.:** Prgr.sched. free on request. "El Idhaz" (in Arabic) twice monthly.


EAST
U.S.S.R. NEAR EAST
1:50 Mill.
0 500 1000 1500 2000 KM
SOVIET UNION
THE PEOPLES REPUBLIC OF CHINA
INDIAN OCEAN
Arabian Sea
Bay of Bengal
Sea of Japan
East China Sea
Pacific Ocean
EUROPE
LIBYA
EGYPT
SUDAN
ETHIOPIA
SOMALIA
SAUDI ARABIA
YEMEN
ADEN PROTECTORATE
OMAN
IRAQ
IRAN
TURKEY
SYRIA
ISRAEL
AFGHANISTAN
WEST PAKISTAN
INDIA
NEPAL
EAST PAKISTAN
ASSAM
BURMA
THAILAND
LAOS
CAMBODIA
VIETNAM
MONGOLIA
KOREA
JAPAN
LUZON
MINDANAO
BORNEO
CEYLON
PARIS
BERLIN
ROMA
TRIPOLI
ATHINAI
CHANIA
BENGAZI
IZMIR
RHODES
ANKARA
ALEXANDRIA
FAYID
CAIRO
ASSIOUT
KHARTOUM
ASMARA
MASSAUAR
DJIBOUTI
ADDIS ABBEBA
HARGEISA
MECCA
DJEDDA
SANAA
ADEN
BAGHDAD
TEHRAN
ISFAHAN
AHWAZ
SHIRAZ
KERMAN
ZAHEDAN
KABUL
PESHAWAR
RAWALPINDI
SRINAGAR
JAMMU
LAHORE
SIMLA
KARACHI
DELHI
LUCKNOW
KATHMANDU
RANCHI
CALCUTTA
BHOPAL
BOMBAY
GOA
MYSORE
MADRAS
COLOMBO
KOTARADJA
PENANG
BANGKOK
RANGOON
VIENTIANE
HANOI
HUE
NHATRANG
PHNOM-PENH
DALAT
SAIGON
JESSELTON
BRUNEI
MENADO
TERNATE
SARAWAK
NORTH BORNEO
S. FERNANDO
MANILA
BACOLOD
CEBU
HAINAN
YUNNAN
CHUNGKING
KWEICHOW
HUNAN
CANTON
MACAO
HONGKONG
TAIWAN
TAIPEI
FUKIEN
NANKING
SHANGHAI
SZECHUAN
KANSU
CHINGHAI
SINKIANG
TIBET
LHASA
KASHMIR
ALMA ATA
FRUNZE
TASHKENT
CHIMKENT
SAMARKAND
BUKHARA
STALINABAD
ASHKHABAD
MASHAD
TABRIZ
RESHT
SANANDAJ
KERMAN-SHAH
GORGAN
TEHRAN
BAKU
EREVAN
MAKHACHKALA
TBILISI
GROZNY
GURYEV
STAVROPOL
KRASNODAR
ORDZHONIKIDZE
BATUM
ALEPPO
DAMASKUS
NICOSIA
Cyprus
BEIRUT
HAIFA
TEL AVIV
JERUSALEM
LIMASOL
ISTANBUL
SIMFEROPOL
ODESSA
TIRASPOL
KIEV
KHARKOV
DNJEPROPETROVSK
STALINO
ROSTOV
STALINGRAD
KURSK
VORONEZH
TJERNOVTSY
KICHINEV
BEOGRAD
LVOV
BUDAPEST
MINSK
SMOLENSK
MOGILEV
KALININGRAD
KAUNUS
VILNUS
RIGA
TAKLINN
LENINGRAD
PETROZAVODSK
ARKHANGELSK
COPENHAGEN
STOCKHOLM
HELSINKI
MURMANSK
MOSCOW
IVANOVO
GORKIJ
KAZAN
PERM
UFA
SVERDLOVSK
CHELYABINSK
NOVO SIBIRSK
KRASNOJARSK
IRKUTSK
ULAN UDE
CHITA
ULAN BATOR
JAKUTSK
MAGADAN
PETROPAVLOVSK
KAMCHATSKIJ
NIKOLAYEVSK
KOMSOMOLSK
YUZNO
SAKHALINSK
KHABAROVSK
BLAGOVESHCHENSK
SAPPORO
HAKODATE
VLADIVOSTOCK
AOMORI
SENDAI
TOKYO
NAGOYA
OSAKA
HIROSHIMA
MATSUYAMA
FUKUOKA
KUMAMOTO
NAGASAKI
SHENYANG
PYONGYANG
SEOUL
INCHON
PUSAN
MOKPU
PEKING
TIENTSIN
HOPEI
Okinawa
NAHA
Ryukyu Islands
TAIWAN
HAINAN
Cyprus

UGANDA

L.T.: GMT+3 h – Pr.L.: English, Luganda, Lwo. Ateso, Runyoro/Rutoro, Lugbara, Runyankore/Rukiga, Hindustani.

RADIO UGANDA (Go.)

AD.: Limited adv. planned – ADDR.: P.O. Box 142, Kampala. Cable: Knowledge. Te.: 3147 – L.P.: Dir.: A. G. Ridley. Contr Prgr's: J. Kenyon. Chief Engineer: A. Stephenson.

STATIONS: m.w. 2/10 kW, s.w. 5/8 kW.

kc	m	Netw.	kc	m	Netw.	kc	m	Netw.
728	412.0	Red/Blue	4976	60.29	Red	7110	42.19	Blue
3340	89.81	Blue	5026	59.70	Blue	7195	41.70	Red

HOME SERVICE:

Red Network: W 04.00–05.00 on 4976 kc, 09.30–11.00 (Sat 14.00) on 7195 kc, 14.00 (Sun 14.30)–20.00 on 728/4976 kc. Sun 09.15–14.00 on 7195 kc, 14.30–20.00 on 728/4976 kc.

Blue Network: W 04.00–05.00 on 5026 kc, 09.30–11.00 (Sat 14.00) on 728/7110 kc, 14.00 (Sat 14.30)–15.45 on 5026 kc, 16.00–20.00 on 3340 kc. Sun 09.15–14.00 on 728/7110 kc, 14.30–15.45 on 5026 kc, 16.00–20.00 on 3340 kc.

ANN.: E.: "This is R. Uganda, Kampala". Luganda: "Eno ye R. Uganda, Kampala". Lwo: "Man en aye R. Uganda, Kampala". Rumyoro: "Enu niyo R. Uganda, Kampala". Ateso: "Ne nges R. Uganda, Kampala" – V. by QSL-card – F.PL.: 3 channel transmissions early 1963.

UPPER VOLTA (Republic)

L.T.: GMT – Pr. L.: French, Moré.

RADUIO HAUTE-VOLTA (Go.)

FI.: By state and OCORA – ADDR.: B.P. 511, Ouagadougou. Cable: Radiovolta-Ouaga. Te.: 2214.

L.P.: Dir. Gen.: V. Jean Louis. Dir. Tec.: M. Dupont.

STATIONS (System TRT):

1439 kc 208.4 m 1 kW – 4815 kc 61.31 m 4 kW – 6045 kc 49.63 m 25 kW

HOME SCE. in French, Vernaculars: W 06.00–08.00, 12.00–14.00, 17.00–22.30, Sat 06.00–08.00, 12.00–23.00, Sun 07.00–23.00.

N.: French: 06.15 (W), 07.00 (Sun), 07.45 (W), 08.30 (Sun), 12.00, 12.45, 19.00, 20.00, 22.25 (W), 22.55 (Sun).

English: Tues, Thurs, Sat 13.00, Sun 08.45 – Wrp.: W 12.40 – L.L.: (English) W 19.15 – Vernaculars: Peulh 17.45, Mossi 18.00, Dioula 18.11, Gouraunsi 18.22, Gourmantché 18.33, Lobi 18.44, Bobo 18.55 Senoufo 19.06 – Reg. St. (at Bodo-Dioulasso): 1529 kc 1 kW: 17.00–19.00 (N. in Vernaculars).

ANN.: "Ici Ougadougou, Radiodiffusion de la Haute-Volta émettant sur..." – INT.-SIG.: Folklore Music (Balafon) – V. by QSL-card or letter. Rp. – F.PL.: 100 kW tr. and TV in 1963.

ZANZIBAR (British)

L.T.: GMT+3 h – Pr. L.: Kiswahili, Arabic, English.

ZANZIBAR BROADCASTING SERVICE (Go.)

FI.: Go. maintained – ADDR.: P.O. Box 1178, Zanzibar Cable: Broadcasting. Te.: 2128 – L.P.: Broadc. Officer: Sheikh Y. M. Yusuf. Dir. Tec.: N. J. A. Frigout.

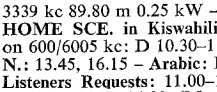
STATIONS: 600 kc 500 m 0.25 kW – 4795 kc 62.54 m 0.25 kW. 3339 kc 89.80 m 0.25 kW – 6005 kc 49.96 m 3.5 kW.

HOME SCE. in Kiswahili (occ. items in English, Arabic, Indian) on 600/6005 kc: D 10.30–11.30, 13.30–16.30.

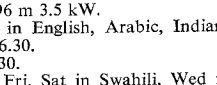
N.: 13.45, 16.15 – Arabic: Fri 14.00–14.30.

Listeners Requests: 11.00–11.30 (Tues, Fri, Sat in Swahili, Wed in Indian), 14.00–14.30 (Mo in Indian) – T.S.: 11.00, 14.00, 16.00.

ANN.: Swahili: "Hiifni Sauti ya Unguja". Arabic: "Hadha Saut Zinjibar". English: "This is Zanzibar calling on..." – INT.-SIG.: Musical Chords – V. Re. not required – F.PL.: Increase power – PUB.: Prgr. schedule in Swahili (weekly) free on request.



ASIA



ADEN (British Colony)

L.T.: GMT+3 h – Pr.L.: Arabic, English.

ADEN BROADCASTING SERVICE (Go.)

ADDR.: P.O. Box 1264, G.P.O., Aden. Cable: Broadcasts. Te.: 4874.

L.P.: Dir. Gen.: A. M. Zokari. Dir. Tec.: D. A. Import.

STATIONS: 785 kc 382.2 m 5 kW – 7165 kc 41.87 m 7.5 kW d.

HOME SCE. in Arabic: 03.30–05.30 (Fri, Sun 12.00), 12.00–19.30.

N.: Fri & Sun 03.55, 04.45, 06.45, 09.55. D 13.00, 15.00, 17.00, 19.00.

ANN.: "Huna Adan" (This is Aden) or "Mahatatu Aden Lil idha'a" ("This is the Aden Broadcasting Service") – V. by QSL-card or letter. Rp. preferred – PUB.: Prgr.schedule free on request.

ADEN FORCES BROADCASTING ASSOCIATION (RAF)

ADDR.: R.A.F. Station, B.F. P.O. 69, Khormaksar, Aden. Cable: "AFBA RAF". Te.: 3356 – L.P.: Dir.: A. F. McCarthy Wg. Cdr. Dir. Tac.: Sayler.

STATION: 930 kc 323 m 3.5 kW.

HOME SCE. in English: 03.00–07.00, 11.00–20.00.

N.: 04.00, 13.00, 16.00, 18.00, 20.00.

ANN.: "You are tuned to Aden" – V. by letter.

AFGHANISTAN

L.T.: GMT+4½ h – Pr.L.: Pushto, Persian.

AFGHAN BROADCASTING SYSTEM (Go.)

ADDR.: Radio Kabul, Baghi Omumi, Kabul. Cable: Aftel. Te : 22225.

L.P.: Pres.: A. R. Benawa. Dir. Tec.: M. Akram.

STATIONS:

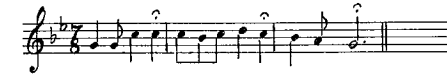
660 kc	454.5 m	20 kW		9705 kc	30.91 m	50 kW	
4040 –	74.25 –	50 –		15135 –	19.82 –	50 –	
4710 –	63.69 –	50 –		15225 –	19.70 –	50 –	
4775 –	62.84 –	50 –					

HOME SERVICES: 02.30–04.30, 07.30–09.00 on 660/4040 kc, 11.30–13.30, 14.30–17.30 on 660/4040/4710 kc.

FOREIGN SERVICE:

English: 10.30–11.00 to F. East on 15225 kc. 11.00–11.30 to So. Ea. Asia, Indonesia on 15135 kc. 14.00–14.30 to Near East on 4775 kc – Urdu: 13.30–14.00 on 4775 kc – Russian: 17.30–18.00 on 4775 kc – Arabic: 18.00–18.30 on 15225 kc – German: 18.30–19.00 to Europe on 15225 kc – French: 19.00–19.30 to Europe on 15225 kc.

ANN.: Pushto: "Da Kabul Dai" – INT -SIG : A record on national flute – V. by QSL-card.



BAHRAIN

L.T.: GMT+4 h – Pr. L.: Arabic.

BAHRAIN BROADCASTING STATION (Go.)

ADDR.: Department of Public Relations and Broadcasting, P.O. Box 253, Manama, Bahrain, Arabian Gulf. Cable: Relations. Te.: Dept 3460, R. Station 8278 – L.P.: Dir. of Public Rel. & Broadc.: H. J Mandil. Dir. Tec.: S. A. Khan.

STATION: 610 kc 491.8 m 2 kW.

HOME SCE. in Arabic: D 16.00–19.30, Fri also 04.30–06.30 – N.: D 17.30 – Wrp.: D 17.45.

ANN.: Arabic: "Huna Al-Bahrain. Iza'at Al-Bahrain Al-Lasilkia". E.: "Here is Bahrain. The Bahrain Broadcasting Station".

INT.-SIG.: Toy symphony – V. by letter – F.PL.: Power 4 kW; 10 kW sw.-tr. – PUB.: Prgr. schedule in Arabic free on request.

BORNEO, NORTH

L.T.: GMT+8 h – Pr L : English, Hakka, Malay, Kadazan.

NORTH BORNEO BROADCASTING SERVICE (Go)

ADDR : Dept. of Broadc. and Inf., Jesselton. Cable: Infof. Te : 2646 – L P : Dir. Broadc. & Inf.: R. J. Brooks. Dir. Tec.: W. A. M. Ramsbotham.

STATIONS: VQA 930 kc 323 m 0.5 kW – VQA52 4970 kc 60.36 m 5 kW.

HOME SERVICE: 22.30–00.30, 04.00 (Sat 03.00)–06.00, 08.30–14.00.

English: 23.00–23.30, 04.30–05.00 (Sat also 03.00–04.00), 11.00–11.15, 12.30–14.00 – N : 23.00, 11.00.

Malay: 00.00–00.30, 05.30–06.00, 11.15–12.30 – Hakka: 23.30–24.00, 04.00–04.30, 08.30–10.00 – Kadazan: 22.30–23.00, 05.00–05.30, 10.00–11.00.

ANN : "This is R. Sabah broadcasting from Jesselton, North Borneo".

INT -SIG : Opens and closes with the sound of No. Borneo native gongs – V. Re. not welcomed but answered – F.PL: FM-st. – PUB.: "R. Sabah Calling".

BRUNEI (British Protected State)

L.T.: GMT+8 h – Pr. L.: Malay, English, Chinese.

BRUNEI BROADCASTING SERVICE (Go.)

ADDR.: Brunei Town, State of Brunei, Br. No. Borneo. Cable: Infoff. Te.: 345 PBAX – L.P.: Dir. of Broadc. & Inf.: Dr. P. Yusoff. P.H.A. Rahim. Dep. Dir.: Salleh bin Kadir. Chief Prgr. Organiser: V. Krijgsman.

STATIONS: (System: Marconi):

970 kc 309 m 1.2 kW – 1240 kc 242 m 20 kW – FM: 89.5 Mc 0.015 kW.

HOME SCE.: 22.30–23.30, 03.30–5.30 (Fri 01.00–06.00, Sun 01.00–05.30), 09.30–14.30 – Malay: 22.30–23.30, 01.00–02.30 (Fri, Sun),

04.30-05.30, 05.30–06 00 (Fri), 11.00–13.00 – **N.:** 23.00*, 02.15* (Fri, Sun), 05.00 (exc. Fri), 05.30 (Fri), 12.30.
English: 04.00–04.30 (exc. Fri, Sun), 02.30–03.30 (Fri, Sun), 13.30–14.30 – **N.:** 03.15* (Fri, Sun), 04.15* (exc. Fri, Sun), 13.30.
Chinese: 03.30–04.00 (Fri, Sun 04.30), 09.30–11.00 – **N.:** 03.45* (exc. Fri, Sun), 04.00* (Fri, Sun), 19.45. *)News Headlines.

ANN.: E.: "This is R. Brunei". Malay: "Inilah Radio Brunei". **INT.-SIG.:** Opens transm's with the sound of Native Tune – **V.** by QSL-card or letter (for Sw. only). Re. to Chief Engineer – **F.PL.:** 10 kW sw.-tr. early 1963 – **PUB.:** "R. Times" projected for 1963.

BURMA

L.T.: GMT+6½ h – **Pr. L.:** English, Burmese, Hindustani.
BURMA BROADCASTING SERVICE (Go.)
AD.: 1¼ h per day on 2nd Prgr. – **ADDR.:** Prome Rd., Kamayut P.O., Rangoon. **Cable:** Burbrocast. **Te.:** 31355 – **L.P.:** Dir.: U. Pe Thaw. B.A.B.L., D.M.A. Dir. Tec.: U. Win Mg. A.M.I.R.E.

STATIONS: (System: R.C.A., Marconi).

Call	kc	m	kW	Call	kc	m	kW	Call	kc	m	kW
XZK	955[1])	314.0	50	XZK9	4725[1])	63.48	50	XZK3	6035[1])	49.71	50
XZK8	1150[2])	261.0	5	XZK2	4795[2])	62.57	50	XZK5	9685[2])	30.98	50

FM: 100/102/104/106 Mc 0.25 kW. [1]) Prgr. I [2]) Prgr. II.

HOME SCE.:
Prgr. I: Burmese: 00.45–02.00 on 955/6035 kc, 04.30–07.00 on 955/9685 kc, 11.00–14.15 on 955/4725 kc – **N.:** 01.00, 06.30, 13.15 – **Wrp.:** 13.28 – **Folklore Music:** Sun, Tues, Thurs 13.30.
English: 02.00–02.30 on 955/6035 kc, 07.00–07.30 on 955/9685 kc, 14.15–15.30 on 955/4725 kc – **N.:** 02.00, 07.00, 15.00 – **Mbg.:** Wed 14.30, Thurs 14.15, Sat 07.10 – **L.L.:** Wed 14.15.
Hindustani: 02.30–02.45 on 955/6035 kc – **N.:** 02.37.
Prgr. II: (Burmese): 11.30–15.00 on 1150/4795 kc.

ANN.: E: "This is the Burma Broadcasting Service". Burmese: "Myranma Athan Hma Athan Hlwint Nay Barthe" – **INT.-SIG.:** Eric Coates' March: "Calling all workers" – **V.** by QSL-card. Rp. – **PUB.:** "The Listener" (in Burmese only) Bi-monthly.

CAMBODIA

L.T.: GMT+7 h – **Pr.L.:** Cambodian, French.
RADIO CAMBODGE (Go.)
AD.: D 00.00–01.30 – **ADDR.:** 28 Ave. Préah Mohaksatryany Kossomak, Phnom Penh. **Te.:** 3958. **Cable:** Miformation – **L.P.:** Dir. Gen.: S. Kean.

STATIONS (Systems: Chinese):

1410 kc	213.0 m	20 kW	–	6090 kc	49.26 m	15 kW
9695 –	30.94 –	50 – d				

HOME SCE.: On 1410/6090 kc: 22.15–02.00, 04.15–08.00, 10.00–16.00. **N. in Cambodian:** 23.00, 05.00, 07.00, 12.00. **N. in French:** 23.15, 05.15, 12.45. **N. in English:** 05.30, 12.25 – **Wrp.:** D 13.00 – **L.L.** (English): Tues, Fri 11.45–12.00 – **On 9695 kc:** 13.00–15.00 (13.00 Chinese, 14.00 Vietnamese, 14.20 Laotian, 14.40 Thai).

ANN.: F.: "Ici Phnom-Penh, Radiodiffusion Nationale Khmere". E.: "This is Phnom Penh the Voice of Cambodia" – **V.** by letter – **F.PL.:** transmissions towards Europe, India, Indonesia on 31 m in 1963.

CEYLON

L.T.: GMT+5½ h – **Pr.L.:** English, Sinhalese, Tamil.
RADIO CEYLON (Go., Comm.)
FI.: By state, licenses, adv's – **ADDR.:** Dept. of Broadcasting P.O. Box 574, Colombo 7. **Cable:** Radceylon. **Te.:** 91234.
L.P.: Dir. Gen.: R. J. G. S. B. Senanayake. Chief Eng.: N. S. Wickremasinghe. Listener Research Officer, Head For. Rel.: P. W. S. Perera.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
540	555.5	0.25	4900	61.22	10	9520	31.51	35
640	469.0	0.25	5020	59.76	1	9560	31.38	100
700	428.0	15	6004	49.95	7.5	11770	25.49	35
870	344.8	0.25	6075	49.38	7.5	15120	19.84	35
920	326.0	1	6185	48.50	7.5	15265	19.65	35
4870	61.60	7.5	7190	41.72	10	17820	16.84	35

NATIONAL SERVICE

English: D 11.30–17.30 on 920/5020 kc. Sun 04.30–07.30 on 920/6185 kc – **N., Wrp.:** W 12.45, 15.45 – **L.L.:** Thurs 14.30 (Sinhalese) – Foreign Affairs: Sun 15.15 – Buddhism Tues, Thurs 14.30 – Christianity: Sun 13.30.
Sinhalese: On 700/4900 kc: W 01.00–03.00; on 700/6075 kc: W 06.30–08.00; on 700/4900 kc: Sun 01.00–08.00, D 11.00–17.00 – **N.:** 01.30, 07.15, 12.30, 15.30 – **Folk Music:** W 02.30, Wed 13.15, Sat 13.45, Sun 03.15.
Tamil: On 870/4870 kc: D 01.15–03.00, 11.30–17.00; on 870/6004 kc: W 06.30–08.00. Sun 03.00–04.30, 06.00–08.00 – **N.:** 01.30, 07.15, 12.30, 15.30.

TO SO. EA. ASIA in English, Sinhalese and Tamil: On 17820 kc: D 09.15–10.15 – **Home & Foreign N.** (from Ceylon): D 09.30 (English), Thurs 09.45 (Hindi), Sat 09.55 (Tamil).
ANN.: English: "This is the National Sce. of R. Ceylon" – **Tamil:** "Illankai Vanalai-Thesiya Oliparappu" – **Sinhalese:** "Me Lanka Guwan Viduliye Suwadeshiya Pracharayai" – **INT.-SIG.:** All three services open with "National Drums" ("Magul Bera") and followed by "Jaya Mangala Gatha" and close with National Anthem ("Namo Namo Matha").

COMMERCIAL SERVICE

TO CEYLON in English, Sinhalese, Tamil:
Sinhalese: On 640/4870 kc: D 01.30–03.00, 05.30–07.30; on 640/6004 kc: D 03.00–04.30, Sat/Sun 07.30–10.30; on 920/6185 kc: W 07.30–10.30; on 920/5020 kc: W 10.30–11.30 – **N.:** D 01.45, 07.15 – **Tamil:** On 640/6004 kc: D 04.30–05.30; on 640/4870 kc: W 09.30–12.30, Sat/Sun 10.30–12.30.
English: On 920/5020 kc: D 01.30–03.00, Sat/Sun 10.30–11.00; on 920/6185 kc: D 03.00–04.30, Sat/Sun 07.30–10.30; on 640/6004 kc: W 07.30–09.30; on 640/4870 kc: D 12.30–17.30 – **N.:** D 02.00, 07.45, 12.45 – **Request Prgr.:** Sun 08.30–11.30 – **Greetings Prgr.:** W 13.00 – **Quiz Prgr.:** Wed 14.30 – **L.L.:** Fri 01.30 (Sinhalese).
TO ASIA in English, Hindi, Tamil:
English: 01.30–03.30 on 15265 kc; 12.30–16.45 on 9560 kc – **N.:** 02.00, 13.00 (BBC) – **Home N.:** 13.10 – **Choice of the People:** W 13.15.
Hindi & Tamil: 01.30–04.30(Sun 07.30) on 9520/15120 kc, D 11.00(Sat/Sun 10.30)–17.30) on 9520/11770 kc.
ANN.: English: "This is the Commercial Service of R. Ceylon". **Sinhalese:** "Me Lanka Velanda Guwan Viduli Sewayai". **Tamil:** "Illankai Vanali Varthaga, Olipparappu". **Hindi:** "Yeh R. Ceylon Ka Vyapaar Vibhag Hai" – **INT.-SIG.:** Opens and closes with the theme "Strike up the Band" – **V.** correct Re. verified by QSL-card or letter. Re. in E to be addressed to Listener Research Officer – **PUB.:** R. Times (fortnightly) – **F.PL.:** new mw.st. Link between studio and tr.st. to be replaced by VHF.

VOICE OF AMERICA RADIO STATION IN CEYLON
ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS: Colombo 35 kW: 01.00–03.30, 12.00–19.00.

kc	m	kc	m	kc	m
7110	42.19	11835	25.35	15415	19.46
7275	41.24	11960	25.08	17750	16,90

01.00-03.30 on 7275, 11835 kc – 12.00–18.00 on 7110, 11960, 15415 kc – 18.00–18.30 on 17750 kc – 18.30–19.00 on 15415, 17750 kc.

01.00–03.30	**English**	15.30–16.00	Hindi
12.00–13.30	**English**	16.00–16.30	English (7110), Urdu (11960, 15415)
13.30–14.00	**W. Bengali**		
14.00–14.30	**English**	16.30–18.00	**English**
14.30–15.00	E. Bengali (11960, 15415), Tamil(7110)	18.00–18.30	**English to Africa** (17750)
15.00–15.30	**English** (7110, 15415), Urdu (11960)	18.30–19.00	Hindi to Ea. Af. (15415, 17750)

ANN.: "This is Colombo relaying Voice of America Programs" – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA – **V.** by QSL-card.

THE PEOPLE'S REPUBLIC OF CHINA

L.T.: GMT+8 h (Urumchi: GMT+6 h) – **Pr.L.:** Chinese.
ADDR.: Broadcasting Administration, Fu Hsin Men, Peking – **L.P.:** Director General: Mei Yi.

HOME SERVICE

CENTRAL PEOPLE'S BROADCASTING STATION:
Medium Waves:

kc	m	kc	m	kc	m	kc	m	kc	m
540	555.6	630	476.2	760	394.7	1000	300.0	1230	243.9
560	535.7	640	468.8	790	379.9	1020	294.1	1330	225.6
570	526.3	690	434.8	820	365.9	1090	275.2	1350	222.2
590	508.5	710	422.5	890	337.1	1150	260.9	1470	204.1
600	500.0	720	416.7	910	329.7	1160	258.6	1500	200.0
610	491.8	750	400.0	980	306.1	1210	247.8	1510	198.7

Short Waves:

kc	m	kc	m	kc	m	kc	m	kc	m
3390	88.50	6100	49.18	7195	41.70	9620	31.19	11290	26.57
3830	78.33	6155	48.74	7240	41.44	9670	31.02	11330	26.47
3915	76.63	6212	48.29	7265	41.29	9710	30.90	11455	26.19
3985	75.28	6225	48.19	7305	41.07	9717	30.88	11515	26.05
4250	70.59	6595	45.48	7370	40.71	9735	30.82	11630	25.79
4460	67.26	6790	44.18	7500	40.00	9765	30.72	11660	25.73
4500	66.67	6810	44.05	7620	39.37	9860	30.43	11675	25.70
5075	59.13	6890	43.54	9020	33.26	9920	30.24	11690	25.66
5125	58.54	6995	42.89	9064	33.09	9945	30.17	11725	25.59
5320	56.39	7065	42.46	9170	32.70	9972	30.08	11860	25.30
5915	50.72	7100	42.25	9340	32.12	10260	29.24	11910	25.19
6065	49.46	7170	41.84	9570	31.35	11100	27.03	11925	25.16

China

kc	m	kc	m	kc	m	kc	m	kc	m
11935	25.14	15290	19.62	15480	19.38	15710	19.10	17533	17.11
15030	19.96	15300	19.61	15550	19.29	15880	18.89	17605	17.04
15175	19.77	15313	19.59	15590	19.24	17450	17.19	17635	17.01
15240	19.69	15445	19.43	15610	19.22	17490	17.15	17780	16.87
								17900	16.76

FIRST PRGR.: On 540, 560, 570, 630, 640, 690, 760, 890, 980, 1020-1330 kc and in 76–67–49–41–31–25–19–16 m.b.: 21.50–16.05 (Mo 21.50–06.00, 08.15–16.05) – **N.**: 22.00–22.30, 22.45–23.00 (exc. Sun, Mo),00.00–00.05, 02.00–02.15, 04.30–04.45, 08.00–08.05, 10.00–10.15, 12.10–12.25 (exc. Sun), 12.30–13.00, 14.00–14.15, 15.00–15.15, 16.00–16.05.

SECOND PRGR.: On 600, 610, 710, 720 kc and in 76–59–49–41–31–25–19–16 m.b.: 22.40–01.30, 03.55–06.00, 09.25–16.00 (Sun 22.40–16.00, Mo 22.40–01.30, 03.55–16.00) – **N.**: 23.00–23.30, 00.00–01.30 (Dictation, exc. Sun), 05.00–05.15 (exc. Sun), 14.30–16.00 (Dictation).
THIRD PRGR.: On 1000, 1150, 1160 kc and in 78–67–44–26 m.b.: 09.55–14.30 (Sun 03.50–14.30) – **N.**: 11.25–11.30.

FOURTH PRGR.: (to the capital): 820 kc: 22.35–02.15, 03.40–04.55, 09.00–16.05 – 1210 kc: 05.55–14.00 – 1350 kc: 00.00–04.00, 06.00–10.30 – 1500 kc: 22.10–03.25, 04.30–10.55, 11.00–13.40.

TO TAIWAN: On 590, 750, 790, 910, 1090, 1230, 1470, 1510 kc and in 70–58–44–40–32–26–19–17 m.b.: 20.55–01.35, 02.55–06.05 (Sun 02.55–07.05), 08.25–17.05 – **N.**: **Standard Chinese**: 22.00–22.10, 23.00–23.15, 00.00–00.10, 04.00–04.15, 05.00–05.10, 10.00–10.10, 11.00–11.15, 12.00–12.10, 14.00–14.10, 15.00–15.15, 16.00–16.10. **Amoy**: 21.00–21.10, 00.30–00.40, 03.00–03.10, 08.30–08.40, 13.00–13.10. **Hakka**: 09.30–09.40.

LOCAL STATIONS

Local Stations:	kc		kc
Shanghai	850, 990, 1070, 1110, 1210, 1300, 1500	Tsitsihar	740
		Shensi	900, **6176**
Hopei	780, 1280	Sian	680, 1370, 1490
Teintsin	870, 950, 1070, 1390, 1520	Hanchung	1350
		Paochi	1310
		Tungchuan	1050
Chengteh	850	**Kansu**	860, **6155, 7324**
Chinhuangtao	1370	Baiying	1520
Hantan	1330	Changyeh	1490
Hsingtai	1080	Kannan	1330
Paoting	1470	Pingliang	1550
Shichiachuang	1050	Tienshui	1270
Tangshan	810, 1450	Yumen	1310
Tsangchow	1440	Ninghsia	1290
Shansi	1100, 1530	**Chinghai**	1010, 1250, **6260, 6500, 9500**
Inner Mongolia A	960, 1460, **3970, 4068, 6840, 6974, 9365, 11040**	**Sinkiang**	740, 910, **4220, 4500, 4770, 6280, 7050, 7385, 9470, 10245**
Inner Mongolia B	1070, 1380, **3900, 4000**	**Shantung**	920, **2350**
		Tsinan	1310
Huhehot	1330	Tsingtao	850, 1400
Paotow	670	Yentai	1450
Chaowut	1580	Kiangsu	700
Chirim	1350	Nanking	870
Silingol	**4525**	Hsuchow	1450
Ulanchap	1540	Nantung	1440
Bayinor	1270, **4000**	Wusih	1400
Liaoning	218, 1240	Anhwei	940
Shenyang	690, 790, 1440	Wuhu	1490
Anshan	950, 1070	**Chekiang**	800, 1350, **2475**
Antung	890, 1400	Chowshan	1270
Chingchow	1410	Ningpo	890
Fushin	1470	Wenchow	1450
Fushun	850, 1520	**Fukien**	880, 1430, **4975**
Lushun-Dalien	690, 830	Foochow	1330
Penhsi	740, 1310	Amoy	1110
Yingkow	1110	Honan	1420
Kirin	580	Nanyang	1360
Changchun	1330, 1450	Hupeh	770
Baicheng	1270	Wuhan	1110, 1370
Kirin	1360, 1600	Hwangshih	1470
Shihping	1130	**Hunan**	1260, **4990**
Tunghua	910	Hengyang	1350
Yenpien	1050	Hsiangtan	1500
Heilungkiang	250, 620	Shaoyang	1390
Harbin	660, 970	Kiangsi	840
Chianmuszu	670, 1590	Chingtechen	1400
Chisi	1530	Chiukiang	1560
Hekang	1410	Kanchow	1270
Ichun	910	Kwangtung	1060, 1340
Mutangkiang	680	Canton	790, 890, 1400
Shuangyashan	1110	Chankiang	1290

	kc		kc
Hainan	950	Tsukung	1490
Maoming	920	**Kweichow**	1030, **3260**
Swatow	1080	Tuyun	1490
Kwangsi	620, 1320, **5010, 5920**	**Yunnan**	810, 1380, **6937, 9990**
Szechuan	1220, **7225**	**Tibet**	590, **5935, 9490, 11330**
Chengtu	750		
Chungking	1080, 1310		

FOREIGN SERVICE

Medium Waves: 1020 kc 294 m, 1040 kc 289 m, 1190 kc 252 m, 1300 kc 231 m.
Short Waves:

kc	m	kc	m	kc	m	kc	m	kc	m
4020	74.63	7035	42.64	9500	31.58	11690	25.66	15190	19.75
5075	59.11	7060	42.49	9510	31.55	11715	25.61	15210	19.72
5880	51.02	7065	42.46	9550	31.41	11730	25.58	15220	19.71
5915	50.71	7080	42.37	9555	31.40	11740	25.55	15235	19.69
5935	50.55	7095	42.28	9570	31.35	11750	25.53	15250	19.67
5950	50.42	7115	42.16	9585	31.30	11780	25.47	15260	19.66
5970	50.25	7125	42.22	9590	31.28	11800	25.42	15270	19.65
5985	50.13	7135	42.05	9595	31.27	11820	25.38	15290	19.62
5990	50.08	7150	41.96	9600	31.25	11860	25.30	15345	19.55
6000	50.00	7160	41.90	9650	31.09	11885	25.24	15370	19.52
6025	49.79	7180	41.78	9660	31.06	11910	25.19	15417	19.46
6035	49.71	7200	41.67	9665	31.04	11945	25.12	15430	19.44
6065	49.46	7205	41.64	9690	30.96	11955	25.09	15500	19.35
6080	49.34	7210	41.61	9755	30.76	11965	25.07	15520	19.33
6120	49.02	7230	41.49	9775	30.69	11975	25.05	17675	16.97
6125	48.98	7265	41.29	9785	30.66	11980	25.04	17680	16.97
6135	48.90	7270	41.27	9800	30.62	12010	24.98	17720	16.93
6145	48.82	7295	41.12	9860	30.43	12055	24.88	17730	16.92
6150	48.78	7315	41.01	9920	30.24	15030	19.96	17745	16.91
6155	48.74	7325	40.96	9945	30.17	15060	19.92	17765	16.89
6170	48.62	7335	40.90	9965	30.11	15080	19.89	17810	16.84
6180	48.54	7350	40.82	11505	26.08	15095	19.87	17835	16.82
6200	48.39	7480	40.11	11650	25.75	15115	19.85	17860	16.80
6210	48.31	9457	31.73	11675	25.70	15140	19.82	17885	16.78
6270	47.85	9480	31.65	11685	25.67	15150	19.80	17900	16.76

I – Korea. II – Japan. III – Philippines. IV – So. Ea. Asia. V – India & Pakistan. VI – We. Asia. VII – No. Africa. VIII – Ea. Africa. IX – So. Africa. X – We. Africa. XI – Europe. XII – Australia/New Zealand. XIII – Ea. No. America. XIV – We. No. America. XV – So. America. XVI – C. America.

Languages	Times	Areas	Winter-Spring 1962/63	Summer-Autumn 1963
Amoy:	23.30–24.00	IV	41, 31, 25, 19	31, 25, 19
	12.00–13.00	IV	50, 41, 31, 25, 19	31, 25, 19
	13.00–14.00	III	41, 31, 25, 19	25, 19
Arabic:	16.30–17.30	VI, VII	50, 40, 31, 25	40, 31, 25
	18.30–19.30	VI, VII	50, 40, 31, 25	40, 31, 25
Burmese:	00.30–01.00	IV	25, 19	25, 19
	11.30–12.00	IV	42, 31, 25, 19	31, 25, 19
	13.00 13.30	IV	252	252
	14.00–14.30	IV	48, 42, 31, 25	31, 25, 19
	14.30–15.00	IV	252	252
Cambodian:	10.30–11.00	IV	31, 25, 19	31, 25, 19
	12.00–13.00	IV	231, 31, 25, 19	231, 31, 25, 19
	14.30–15.00	IV	48, 42, 31, 25	31, 25, 19
Cantonese:	17.00–18.00	V,VIII,IX	48, 42, 30, 25	42, 30, 25, 19
	23.00–23.30	IV	50, 41, 31	50, 41, 31, 15
	01.00–02.00	XIII,XV,XVI	41, 31, 25, 19	31, 25, 19
	03.00–04.00	XIV	40, 31, 25, 19	31, 25, 19
	10.00–11.00	XII	25, 19	31, 25, 19
	11.00–12.00	IV	50, 41, 31, 25, 19	31, 25, 19
Chaochow:	00.30–01.00	IV	25, 19	25, 19
	14.00–15.00	IV	50, 41, 31, 25, 19	31, 25, 19
English	16.00–17.00	V	252	252
	16.00–17.00	VIII, IX	49, 41, 31, 25, 19	41, 31, 25, 19
	17.00–18.00	VIII, IX	49, 41, 31, 25, 19	41, 31, 25, 19
	18.00–19.00	VII, X	49, 41, 31, 25, 19	41, 31, 25, 19
	19.00–20.00	XI	51, 48, 42, 31	48, 42, 31, 25
	20.30–21.30	XI	51, 48, 42, 31	48, 42, 31, 25
	21.30–22.30	X, VII	50, 41, 31, 25	50, 41, 31, 25
	01.00–02.00	XIII	40, 31, 30, 25	31, 25, 19
	02.00–03.00	XIII	40, 31, 30, 25	31, 25, 19
	03.00–04.00	XIV	42, 31, 25, 19, 16	31, 25, 19, 16
	04.00–05.00	XIV	42, 31, 25, 19, 16	31, 25, 19, 16
	08.30–09.30	XII	25, 19, 16	30, 25, 19, 16
	09.30–10.30	XII	25, 19, 16	30, 25, 19, 16
	12.00–13.00	IV	252, 40, 31, 25, 19	252, 25, 19
	14.00–15.00	V	42, 41, 31, 25, 19	42, 31, 25, 19
	15.00–16.00	V	42, 41, 31, 25, 19	42, 31, 25, 19

The Broadcasting Centre, Peking

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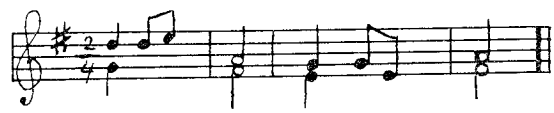
RADIO PEKING

China

Languages	Times	Areas	Winter-Spring 1962/63	Summer-Autumn 1963
French:	18.30–19.30	VII,X,XI	49, 42, 31, 25	42, 31, 25
	19.30–20.30	XI,VII,X	49, 42, 31, 25	42, 31, 25
	20.30–21.30	VII,X,XI	49, 42, 31, 25	42, 31, 25
	21.30–22.30	XI,VII,X	49, 42, 31, 25	42, 31, 25
German:	18.00–18.30	XI	51, 48, 42, 31	48, 42, 31, 25
	20.00–20.30	XI	51, 48, 42, 31	48, 42, 31, 25
Hakka:	00.00–00.30	IV	41, 31, 25, 19	31, 25, 19
	10.00–11.00	IV	50, 41, 31, 25, 19	31, 25, 19
Hindi:	15.00–16.00	V	252, 48, 42, 30, 25	252, 42, 30, 25 19
	16.00–17.00	V	48, 42, 30, 25	42, 30, 25, 19
Indonesian:	08.30–09.00	IV	25, 19	25, 19
	10.30–11.30	IV	25, 19	25, 19
	12.00–12.30	IV	25, 19	25, 19
	13.00–13.30	IV	30, 25, 19	30, 25, 19
Italian:	19.00–19.30	XI	49, 41, 31, 25	41, 31, 25
	20.00–20.30	XI	49, 41, 31, 25	41, 31, 25
Japanese:	21.00–21.30	II	294, 75, 50, 41, 31	294, 50, 41, 13
	09.00–10.00	II	294, 289, 75, 50, 41, 31	50, 41, 31
	11.00–12.00	II	294, 289, 75, 50, 41, 31	294, 289, 50 41, 31
	12.30–13.30	II	294, 289, 75, 50 41, 31	294, 289, 50 41, 31
	14.00–15.00	II	294, 289, 75, 50	294, 289, 50, 41
Korean:	10.00–11.00	I	294, 289, 75, 50, 41	75, 50, 41
	12.00–12.30	I	294, 289, 75, 50, 41	294, 289, 75, 50, 41
	13.30–14.00	I	294, 289, 75, 50	294, 289, 75, 50
Laotian:	23.30–24.00	IV	42, 31, 25, 19	31, 25, 19
	11.00–11.30	IV	231, 42, 31, 25, 19	31, 25, 19
	13.00–14.00	IV	231, 48, 42, 31, 25	231, 31, 25, 19
	14.30–15.00	IV	231	231
Malayan:	10.00–10.30	IV	25, 19	25, 19, 16
	14.30–15.00	IV	30, 25, 19	30, 25, 19
Persian:	15.30–16.00	IV	50, 40, 31, 25	40, 31, 25
	18.00–18.30	IV	50, 40, 31, 25	40, 31, 25
Portuguese:	18.30–19.00	IX	48, 42, 30, 25	40, 30, 25
	19.30–20.00	X, XI	49, 41, 31, 25	41, 31, 25
	23.00–23.30	XV	48, 42, 31, 25	42, 31, 25, 19
	00.00–00.30	XV	48, 42, 31, 25, 19	31, 25, 19
	01.30–02.00	XV	42, 31, 25, 19	31, 25, 19, 16
Russian:	10.00–10.30	XI	50, 42, 31	50, 42, 31
	11.00–11.30	XI	50, 42, 31	50, 42, 31
	11.30–12.00	XI	50, 42, 31	50, 42, 31
	12.30–13.00	XI	42, 40, 31	42, 40, 31
	15.00–15.30	XI	50, 42, 40, 31	42, 40, 31, 25
	16.00–16.30	XI	50, 42, 40, 31	42, 40, 31, 25
	17.00–17.30	XI	48, 42, 40, 30	42, 40, 30, 25
	18.00–18.30	XI	48, 42, 30	48, 42, 30, 25
	19.00–19.30	XI	48, 42, 30	48, 42, 30, 25
Serbo-Croatian:	18.30–19.00	XI	42, 30, 25	42, 30, 25
	21.30–22.00	XI	48, 42, 30, 25	48, 42, 30, 25
Spanish:	20.30–21.30	XI	49, 42, 31, 25	42, 31, 25
	22.00–23.00	XV	49, 42, 31, 25	42, 31, 25
	23.30–00.30	XVI, XV	40, 31, 25, 19	31, 25, 19
	00.30–01.30	XV	48, 42, 31, 25, 19	31, 25, 19
	02.00–03.00	XVI, XV	42, 31, 25, 19, 16	25, 19, 16
Standard Chinese:	17.30–18.30	VI,VII,X,XI,	49, 42, 31, 25	42, 31, 25
	20.00–21.00	XI,VI,VII,X	49, 42, 40, 31	42, 40, 31, 25
	22.30–23.00	IV	50, 41, 31	50, 41, 31, 25
	02.00–03.00	XIII	41, 31, 25, 19	31, 25, 19
	04.00–05.00	XIV	40, 31, 25, 19	31, 25, 19
	09.00–10.00	IV	50, 31, 25, 19	31, 25, 19
	13.00–14.00	IV	50, 41, 31, 25, 19	31, 25, 19
Swahili:	16.00–16.30	VIII	49, 42, 31, 25, 19	31, 25, 19
	17.00–17.30	VIII	49, 42, 31, 25, 19	31, 25, 19
Thai:	00.00–00.30	IV	31, 25, 19	25, 19
	11.30–12.00	IV	252, 40, 31, 25, 19	252, 25, 19
	13.30–14.30	IV	252, 40, 31, 25, 19	252, 31, 25, 19
Turkish:	17.30–18.00	IV	50, 40, 31, 25	40, 31, 25
	19.30–20.00	IV	50, 40, 31, 25	40, 31, 25
Vietnamese:	11.30–12.00	IV	231, 42, 31, 25, 19	231, 31, 25, 19
	12.30–13.00	IV	42, 31, 25, 19	31, 25, 19
	13.30–14.00	IV	50, 42, 31, 25	31, 25
	14.00–14.30	IV	231, 50, 42, 31, 25	231, 31, 25
	15.00–15.30	IV	50, 41, 31, 25	31, 25

NEWS: Beginning 10–15 min. of each prgr.
ANN.: E: "This is Radio Peking" – F: "Ici Radio Pekin" – G: "Hier ist Radio Pekin" – P: "Aqui Pequim" – R: "Govorit Pekin" – Sp: "Aqui Pekin".

INT.-SIG.: – V. by QSL-card or letter.



TAIWAN (FORMOSA)

CHENG SHENG BROADCASTING CORP. (Comm.)

ADDR.: 433 Chongking No. Road, Sec. 3, Taipei. Cable: Csbcoc. Te.: 42400 – L.P.: Pres.: C. Y. Peng. Gen. Mgr.: S. H. Shia. Dir. Tec.: G. D. Tue.

STATIONS:	kc	m	kW		kc	m	kW
1) BEC78	590	508.6	1	4) BEV58	1290	232.5	1
BEC77	5995	50.04	1	BEV59	1170	256.4	1
BEC76	7200	41.67	3.5	5) BEV36	1130	265.5	1
2) BEV34	820	365.9	1	6) BEV72	930	322.6	1
3) BEV35	1340	352.9	1	7) BEV60	1020	297.0	1
				8) BEV37	1270	196.0	1

HOME SCE. on all st's: 23.00–18.00 (English: 04.15–04.45).
1) The Voice of Righteousness, Taipei – 2) Cheng Sheng the First Dept., Taipei – 3) Cheng Sheng the Second Dept., Taipei – 4) BEV58: The Farmers Broadc. St., First Dept., Taiching. BEV59: The Farmers Broadc. St. Second Dept., Taiching – 5) Yun Lin Broadc. St., Yun-Lin – 6) Kung Yi Broadc. St., Chiayi – 7) Cheng Yen Broadc. St., Kaohsong – 8) Cheng Tung St., Taitung.

FU HSING BROADCASTING STATION (Go.

ADDR.: P.O. Box 799, Taipei. Te.: 43126.
L.P.: Dir. Gen.: C. Kung. Dir. Tec.: L. Lee.
HOME SCE. in Mandarin: Taipei: 21.50–06.30, 08.50–17.40 on 790, 910, 1430, 1510 kc and BEH22 15175 kc 19.77 m 1 kW or 15480 kc 19.38 m 1 kW.
Taichung: 21.50–17.00 on 910, 1090, 1230, 1430, 1510 kc – Kaohsiung: 21.50–16.30 on 790, 1090, 1430, 1510 kc – Taitung: 21.55–14.30 on 1090 kc – Ilan: 21.50–17.05 on 1090 kc – Hualien: 21.50–16.10 on 1230 kc – V. by QSL-card. Rp. Prgr.sched. free on request.

POLICE BROADCASTING NETWORK (Go.)

ADDR.: No. 1 Tientsin Str., Taipei. Te.: 24761.
L.P.: Dir. Gen.: C. Y. Tuan. Dir. Tec.: S. Yin.
STATIONS:

	Call	kc	m	kW	h of tr.
Taipei	BEP22	1260	238	10	W 22.00–01.30, 02.00–07.00,
–	BEP23	5960	50.34	1	08.30–17.00. Sun 23.30–17.00.
Hsinchu	BEP26	1120	267.8	1.5	N.: 23.30, 03.00, 04.50, 06.30,
Changwa	BEP24	780	384.6	1.5	09.00, 11.20, 12.00, 13.30,
Kaohsiung	BEP25	1120	267.8	1.5	14.30, 16.50.

V. by QSL-card or letter.

TAIWAN COMMERCIAL BROADCASTING STATIONS ASSOCIATION

ADDR.: 22 Lane 81, Maoy Str., Taipei.
Short Wave: BEG23 7180 kc 41.78 m 1 kW: You Sze Broadc. St., 49 Kun Ming St., Taipei: 21.30–24.00, 02.30–05.00, 08.30–14.30. +29 m.w. stations not mentioned.

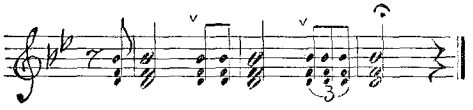
MILITARY BROADCASTING STATIONS (Go.)

ADDR.: Military Broadcasting Corps, Ministry of National Defense, Taipei.
STATIONS:

	Call	kc	m	kW		Call	kc	m	kW
1)	BEC22	1110	270.27	1.5	5)	BEC33	1350	222.2	1.5
	BEC23	1520	197.4	3		BEC34	7270	41.26	1.5
	BEC24	7280	41.21	1.5	6)	BEC35	840	357.14	0.5
2)	BEC25	700	428.6	3		BEC36	1330	225.6	1.5
	BEC26	6090	49.26	3		BEC37	5985	50.12	1.5
3)	BEC27	1200	250.0	1.5	7)	BEC38	1090	275.23	0.3
	BEC28	7240	41.44	1.5		BEC39	1490	201.34	3
4)	BEC29	1250	240.0	1.5					
	BEC32	9505	31.35	1.5					

1) No. 3, Section 1, Hsinyi Road, Taipei: 22.00–24.00, 03.00–07.00, 09.00–16.00 – V. by QSL-card – 2) Lanyealif, Shyhlin, Taipei: 22.00–03.00, 10.00–17.30 – 3) No. 3, Shyhfun Road, Taichung: 22.00–03.00, 09.00–16.30 – 4) No. 101, Third Jengjeng Road, Kaohsiung: 22.00–01.00, 03.00–07.00, 09.00–15.30 – V. by QSL-card – 5) No. 38, Sanmin Str., Hualien: 22.00–24.00, 03.00–07.00, 09.00–17.00 – 6) No. 40, New Mingdertsuen, Tsoying: 22.00–24.00, 03.00–07.00, 09.00–17.00 – V. by QSL-card – 7) No. 14, Minsheng Road, Maagong, Penghwa: 22.00–02.00, 03.00–06.00, 10.00–17.30.
The Military Broadcasting Corps and The Air Force Broadcasting Station are two different organizations. The first belongs to the Political Dept. of Ministry of National Defense, the latter to Headquarters of Chinese Air Force. They are without any relationship in their administration and service.

AIR FORCE BROADCASTING STATION (Military)
FI.: By Go. – **ADDR.**: 1st and 2nd Dept.: 44 Section 2, Jen Ai Rd., Taipei. **Te.**: 28981 – **L.P.**: St. Dir.: S. H. Hu. Dir. Tec.: C. S. Lou.
STATIONS:
BEC70 980 kc 306.1 m 1.5 kW BEC71 7260 kc 41.32 m 3.5 kW
BEC60 1440 – 208.3 – 1.5 – BEC62 9775 – 30.69 – 3.5 –
BEC61 6105 – 49.14 – 2.5 –
HOME SCE. in Mandarin: 1st Prgr. on 980/7260 kc: 22.00–24.00, 03.55–06.00, 09.00–16.00 – **N.**: 00.00, 04.10, 09.30, 12.00, 14.00 – **2nd Prgr (for China Mainland) on 1440/6105/9775 kc**: D 21.00–23.00, 11.00–17.00 – **N.**: 22.10, 12.00, 14.00, 15.00, 16.00, 17.00.
ANN.: "Voice of Chinese Air Force" – **INT.-SIG.**: (2nd Dept.) Sign of Freedom – **V.** by QSL-card and/or letter.

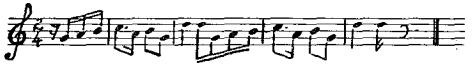


PUB.: Prgr.schedule free on request.

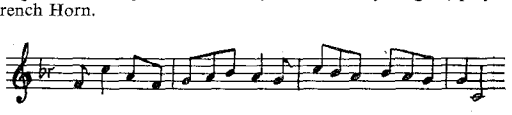
ARMED FORCES RADIO TAIWAN (U.S. Armed Forces)
ADDR.: Box 13, APO63, San Francisco, California, USA. **Te.**: 31375.
L.P.: Mgr.: L. Arison. Dir. Tec.: R. W. Henning. Dir. Foreign Rel.: J. M. Brooks.
STATIONS (Systems: Collins, Gates):
1560 kc 192 m 5 kW – 7215 kc 41.58 m 1 kW – FM: 100.1 Mc 0.4 kW
D. PRGR's in English: 24 h – **N.** every h on the h.
ANN.: "Armed Forces Radio Taiwan, in Taipei" followed by time announcement – **V.** by QSL-card.

CYPRUS

L.T.: GMT+2 h – **Pr. L.**: Greek, Turkish.
CYPRUS BROADCASTING CORPORATION (Go.& Comm.)
FI.: Go. Subsidised and Comm. adv. income – **AD.**: 30 min. d.
ADDR.: P.O. Box 824, Nicosia. **Cable:** Broadcasts. **Te.**: 5231.
L.P.: Dir. Gen.: V. I. Markides. Chief Eng.: P. T. Astreos.
STATIONS:
Nicosia 606 kc 495 m 20 kW – Paphos 915 kc 326 m 2 kW
Nicosia 692 – 434 – 20 – – Limassol 1484 – 202.2 – 0.5 –
HOME SERVICE
GREEK PRGR. on 692/915/1484 kc: W 05.00 (Su 04.30)–07.00, 10.00–11.45, 15.00–21.00, Sun: 05.00 (Su 04.30)–11.45, 15.00–17.00.
N.: 05.30, (Sun 05.00), 11.30, 17.30, 20.00.
TURKISH PRGR. on 606 kc: W 05.00 (Su 04.30)–07.00, 10.00–11.45, 15.00–21.00. Sun: 05.00 (Su 04.30)–11.45, 15.00–17.00.
N.: 05.30 (Su 05.00), 11.30, 17.30, 20.00.
ENGLISH PRGR. on all frequencies: D 11.45–13.00 – **N., Wrp.**: 12.00.
T.S.: 6 pips before all Greek newscasts.
ANN.: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burasi Kibris Radyo Yayin Korporasyonu" – **V.** by letter – **INT.-SIG.**:



HQ FORCES BROADCASTING SERVICE. Networks Head quarters, Forces Broadcasting Service, Near East Land Forces **FI.**: by the State (Brit. Go.) – **ADDR.**: British Forces Post Office 53' Nicosia. **Te.**: 3118.
L.P.: Dir.: R. W. Morgan. Dir. Prgr.: Miss P. A. Livingstone. Dir. Tec.: J. Bull.
STATIONS: 1439 kc 208 m 7.5 kW – 1425 kc 210 m 7.4 kW – 92.1 Mc 20 kW (ERP).
D. PRGR.: in English: W 03.30–06.15, 10.30–21.00 (Sat 22.00), Sun 04.30–21.00 – **N.**: 04.00 (W), 06.00, 11.00, 16.00, 18.00 – **Wrp.**: 04.30 (W), 05.59 (Sun), and after N. 16.00 – **Rel.**: Sun 06.15, 17.30, W 04.10.
ANN.: "This is the Forces Broadc. Service, Cyprus" – **INT.-SIG.**: "Siegfrieds Journey to the Rhine" (Horn theme by Wagner) played on French Horn.



Close Down Theme: "Evening Hymn and Last Post" – **V.** by QSL-card.
PUB.: Prgr.-schedule free on request. **Rp.** – **F.PL.**: 1425 kc to be replaced by 92.1 Mc early 1963.

BBC-EAST MEDITERRANEAN RELAY
Relays of the BBC Arabic Service and General Overseas Service (see page 90).

		kc and mb.
North Egypt, Jordan	03.30–08.00	638,719
Lebanon, Syria, Israel	11.00–16.00	
Egypt, Jordan, North Arabia		
Iraq, Syria, Cyrenaica	16.00–21.00	638,719
Aden, Jordan, Arabia		
Libya, Syria	03.45–05.45	49
	11.00–21.00	49
Sudan, Egypt	03.45–05.45	31
	11.00–21.00	31
Iraq, Persian Gulf	03.45–05.45	49
	11.00–16.00	25
	17.00–21.00	41
Iraq, Persian Gulf (Persian)	16.15–17.00	41

03.30–03.45**, 03.45–05.45*, 05.45–08.00**, 11.00–21.00*.
* Arabic ** General Overseas Service.

HONG KONG (British)

L.T.: GMT + 8 h (Su.: Apr.–Oct+9 h) – **Pr.L.**: Chinese.
RADIO HONG KONG (Go.)
ADDR.: Mercury House, P.O. Box 200, Hong Kong. **Cable:** Broadcasts. **Te.**: 26822 – **L.P.**: Dir. of Broadc.: D. E. Brooks. Dir. Tec.: R. Winyard.
STATIONS: (Systems: S.T.E.C., Marconi)
ZBW 860 kc 348.8 m 2 kW – ZEK 640 kc 468.7 m 2 kW
ZBW3 3940 – 76.14 – 25 – – FM: 91 Mc, 94 Mc 50 kW

HOME SERVICE: English: 23.00–16.00 – **N.**: 00.00, 05.15, 11.00 (BBC Newsreel), 15.00 (R. Australia). **Wrp.**: 23.58, 10.58, 13.13, 14.58. **Chinese:** 23.00–16.00. **N.**: 00.00, 05.30, 10.00, 12.00*, 12.30*. **Wrp.**: 23.58, 05.28, 11.58, 15.30. * Rel. Far Eastern st. from London.
ANN.: English: "This is Radio Hong Kong". Chinese: "Ni do hai Heung Kong Kwong bor deen toy" – **V.** by QSL-card. Rp.

HONG KONG COMMERCIAL BROADCASTING CO.
FI.: By adv. – **ADDR.**: P.O. Box 3000, Hong Kong. **Cable:** Radioads, **Te.**: 36.223 – **L.P.**: Man. Dir.: G. Ho. Dir. Tec.: W. S. Ip.
STATIONS: (Systems: GE, AWA):
1050 kc 286 m 1 kW: Cantonese – 1530 kc 196 m 1 kW: English
HOME SCE.: 23.00–16.00.
English: N.: 00.00, 05.15, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00 (Newsreel), 16.00 – **Wrp.**: 00.10, 05.30, 08.30, 10.10, 12.15, 14.15, 16.00 – **Cantonese: Wrp.**: 23.45, 00.00, 05.28, 12.30 (Sun), 13.30 (W), 15.00 – **L.L.**: (English): W 23.30–23.45.
ANN.: E.: "Commercial Radio, Hong Kong" – **INT.-SIG.**: Chimes – **V.** by letter.

REDIFFUSION (HONG KONG) LTD. A subsidiary of Rediffusion Ltd. London (Comm.) – **FI.**: by subscription charges and adv – **ADDR.**: P.O. Box 121, Rediffusion Hse., Gloucester Rd. **Cable:** Rediffuse. **Te.**: 762211 – **L.P.**: Man. Dir.: G. H. Oldridge – 3 simultaneous wired broadcasting networks. Originating own prgrs., also relay Radio Hong Kong, BBC, etc. D. 23.00–16.00.

INDIA

L.T.: GMT+5½ h – **Pr. L.**: English, Hindi, Tamil, Telugu, Assamese, Bengali, Gujarati, Kashmiri, Malayalam, Oriya, Punjabi, Sanskrit, Urdu, Kannada, Marathi.
ALL INDIA RADIO (Go.)
ADDR.: Akashvani (AIR) Headquarters, Akashvani Bhavan, Parliament Str., New Delhi. **Cable:** "Airgeneral". **Te.**: 30101.
L.P.: Dir. Gen.: B. P. Bhatt. Dep. Dir. Gen.: Prgr.: K. S. Mullick. Adm.: S. Parameshwaran. Inspection: Dr. Narayana Menon. Dir. Prgr.: P. C. Chatterji. Chief Eng.: A. C. Ramchandani and M. L. Sastri. Dir. News Sce.: M. V. Desai. Dir. External Sce.: Miss M. Masani. Dir. Prgr. Planning: H. R. Luthra. Dir. Staff Training: Dr. A. M. Natesh.
STATIONS: Medium Waves:

North Regional	**kc**	**m**		**kc**	**m**
Delhi A	810	370.4	Jaipur	1120	267.9
Delhi B	1070	280.4	Ajmer	600	500.0
Delhi C	1370	219.0	Indore	650	461.5
Lucknow	760	394.7	**South Regional**		
Allahabad	980	306.1	Madras A	720	416.7
Patna	620	483.9	Madras B	1420	211.3
Jullundur	710	422.5	Madras C	1550	193.5

AIR EXTERNAL SERVICES
ALL INDIA RADIO
BROADCASTS
IN
17 LANGUAGES
ROUND THE CLOCK
TO

EUROPE, AFRICA, ASIA, AUSTRALIA & NEW ZEALAND

News, Talks, Commentaries, Music, Plays Features & other items of interest to Listeners.

PROGRAMME SCHEDULES ARE AVAILABLE ON REQUEST FROM

THE DIRECTOR OF EXTERNAL SERVICES
ALL INDIA RADIO
P. O. BOX 500
NEW DELHI (INDIA)

DA-61/232

South Regional	kc	m		kc	m
Tiruchirapalli	940	319.1	Bombay C	1230	243.9
Vijayawada	840	357.1	Nagpur	590	508.5
Trivandrum	660	454.5	Ahmedabad	850	352.9
Kozhikode	680	441.2	Baroda	850	352.9
Trichur	580	517.2	Poona	780	384.6
Hyderabad	740	405.4	Rajkot	910	329.7
Bangalore	610	491.8	**East Regional**		
Dharwar	1360	220.6	Calcutta A	670	447.8
West Regional			Calcutta B	1000	300.0
Bombay A	1040	288.5	Cuttack	965	310.9
Bombay B	550	545.5	Gauhati A	730	411.0

Short Waves: Delhi VUD: 10/20/100 kW:

kc	m	kc	m	kc	m	kc	m	kc	m
3295	91.05	7120	42.13	9740	30.80	11895	25.22	17760	16.89
3365	89.15	7155	41.93	9765	30.72	11920	25.17	17780	16.87
3905	76.82	7225	41.52	11710	25.62	11940	25.13	17800	16.85
3925	76.43	7235	41.47	11715	25.61	11950	25.10	17820	16.84
4760	63.03	7275	41.24	11720	25.60	11955	25.09	17830	16.83
4940	60.73	7290	41.15	11730	25.58	15105	19.86	17855	16.80
4960	60.48	9530	31.48	11785	25.46	15130	19.83	21560	13.91
4990	60.12	9575	31.33	11790	25.45	15160	19.79	21580	13.90
5955	50.38	9605	31.23	11810	25.40	15190	19.75	21650	13.86
5990	50.08	9635	31.14	11830	25.36	15225	19.70	21700	13.82
6135	48.90	9680	30.99	11840	25.34	15290	19.62	21710	13.82
6180	48.54	9690	30.96	11850	25.32	15310	19.60		
6190	48.47	9705	30.91	11875	25.26	15365	19.52		
7105	42.22	9720	30.86	11890	25.23	17705	16.94		

Lucknow (No. Reg. Sce.) 10 kW: 3205 kc 93.60 m – 4880 kc 61.48 m – 6170 kc 48.62 m – **Ranchi (No. Reg. Sce.)** 2 kW: 3268 kc 91.80 m **Simla (No. Reg. Sce.)** 2.5 kW: 3223 kc 93.09 m.
Bhopal (No. Reg. Sce.) 10 kW: 3315 kc 90.50 m – 5990 kc 50.08 m.
Madras (So. Reg. Sce.): VUM – 4920 kc 60.98 m – 7160 kc 41.90 m.
Hyderabad (So. Reg. Sce.) 10 kW: 3355 kc 89.42 m – 4990 kc 60.12 m – 6120 kc 49.02 m – 7140 kc 42.02 m.
Bombay (West Reg. Sce.): VUB: 3295 kc 91.05 m – 4840 kc 61.98 m – 6150 kc 48.58 m – 7240 kc 41.44 m.
Calcutta (Ea. Reg. Sce.): VUC – 3305 kc 90.77 m – 6010 kc 49.92 m – 7210 kc 41.61 m.
Gauhati (Ea. Reg. Sce.): 10 kW: 3235 kc 92.74 m – 3375 kc 88.89 m – 4775 kc 62.83 m – 6130 kc 48.94 m.
Kurseong (Ea. Reg. Sce.): 3355 kc 89.42 m – 6100 kc 49.18 m.

HOME SERVICES

NORTH REG. SCE. (Gujerati, Marathi, Kannada, Hindi, English): Delhi A: 3365 kc: Morning upto 02.15; Evening after 13.15. 4960 kc: Morning after 02.30. 6190 kc: Afternoon, Evening upto 13.00 – Delhi C: 3905 kc: 14.15–14.45 – Lucknow: 3205 kc: as Delhi A 3365 kc. 4880 kc: Morning after 02.30. 6170 kc: as Delhi A 6190 kc – Ranchi: 3268 kc: Evening – Simla: 3223 kc: Morning+Evening – Bhopal: 3315 kc: Morning+Evening. 5990 kc: Afternoon.

SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English): Madras: 4920 kc: Morning+Evening. 7160 kc: Afternoon – Hyderabad: 3355 kc: Morning upto 02.15. 4990 kc: Evening. 6120 kc: Morning after 02.30. 7140 kc: Afternoon.
WEST REG. SCE. (Gujerati, Marathi, Kannada, Hindi, English): Bombay A: 7240 kc: Sun 04.15–06.30 – Bombay B: 3295 kc: Morning upto 02.15. 4840 kc: Evening & Night. 6150 kc: 02.30–04.00. 7240 kc: Afternoon.

EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English): Calcutta B: 3305 kc: Evening after 13.00. 6010 kc: Morning. 7210 kc: Afternoon and Evening upto 12.40 – Gauhati A: 3375 kc: Evening. 4775 kc: Morning upto 01.45. 5970 kc: Morning after 02.00 and Afternoon – Gauhati B: 3235 kc: Evening & Night from 12.30. 4775 kc: Afternoon upto 12.15. 6130 kc: Morning & upto 09.45 – Kurseong: 3355 kc: Evening & Night. 6100 kc: Morning, Afternoon.

HOME NEWS in English:
02.30: Delhi B 60, 50, 41, 31, 25, 19 m.b. – Simla 93 m.b. – Bhopal 90 m.b. – Bombay A – Madras B 60 m.b. – Hyderabad 49 m.b. – Calcutta A – Gauhati 50 m.b. and all m.w. st.
08.00: Delhi B 49, 41, 31, 25, 19 m.b. – Bombay A, Madras B 41 m.b. – Calcutta A.
12.30: Delhi B 41, 31, 25, 19 m.b. – Bombay A – Madras B 60 m.b. – Calcutta A
15.30: Delhi B 91, 76, 63, 50, 49, 41, 31 m.b. – Ranchi 91 m.b. – Simla 93 m.b. – Bhopal 90 m.b. – Bombay A, Madras B 60 m.b. – Hyderabad 60 m.b. – Calcutta A+B – Gauhati 88 m.b. and all m.w. st's.

ALL INDIA VARIETY PRGR. (Vividh Bharati)
Short Wave Service: D: 01.30–03.30 on 6040/6085 kc, 05.30(Sun 04.45) –06.30 on 7260/9550 kc, 08.30–09.30(Sun 10.00) on 7260/9550 kc, 11.00–12.45 on 9550 kc, 13.00–16.15 on 6150/7260 kc – Sat: 16.15–17.30 on 5955 kc, 16.30–17.30 on 6085 kc.

FORCES PRGR. (in Hindi/Gorkhali): 13.15–14.15 on 1070/3365/4760 kc (Delhi B).

SPECIAL PRGR. FOR ANDAMAN AND NICOBAR ISLANDS (from Delhi): 09.00–09.30 (Sat only) on 15155/17705 kc.

EXTERNAL SERVICES

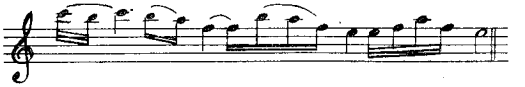
GENERAL SERVICE (for Indians Overseas):			
So. Ea. Asia	**L.**	**kc**	**N.**
23.15–00.15	Hindi	5955/7155/9530/11950	23.20–23.39
00.15–01.15	Tamil	7155/9530/11950	00.16–00.25
11.30–12.30	Tamil	11730	–
Ea. Africa, Mauritius			
03.45–04.15	Hindi	15130/17855	03.50–04.00
04.15–04.30	Gujarati	15130/17780	04.15–04.30
04.30–04.40	**English**	15130/17855	04.30–04.40
15.45–16.30*	–	11720/15105	
16.30–17.15	Gujarati	11790/15105	16.31–16.40
17.15–18.00	Konkani	11790	17.50–18.00
17.45–18.45	Hindi	9680/11840	17.50–18.00
Fiji Islands			
07.00–08.00	Hindi	15290/17705	–
EASTERN SERVICE			
01.30–02.15	Nepali	5955/7225	01.35–01.40
Burma			
00.40–01.15	Burmese	9765/11895	00.40–00.50
11.15–12.15	Burmese	17800/15160	11.16–11.25
China			
11.45–12.30	Cantonese	9740/11830	11.46–11.55
12.30–13.15	Kuoyu	9740/11830	12.31–12.40
No. Ea. Asia			
10.00–11.00	**English**	11730/15105/17855	10.01–10.10
Australia, New Zealand			
10.00–11.00	**English**	11715/15290	10.01–10.10
Bhutan, Sikkim, etc.			
12.30–13.15	Tibetan	7290/9720	12.45–12.55
Indonesia			
22.45–23.00	Indonesian	9530/7105	22.46–22.55
12.15–13.15	Indonesian	15190/17800	12.16–12.25
Ea. Asia			
11.15–11.30	**French**	17705/21580	11.19–11.29
So.-Ea. Asia			
00.30–00.40	English	9765/11895	00.30–00.40
13.30–15.00	**English**	11810/15365	13.31–13.40
WESTERN SERVICE			
Afghanistan			
02.45–03.00	Pushtu	5990/7225	02.49–02.59
14.45–15.30	Pushtu	3905	14.50–15.00
Iran			
03.45–04.00	Persian	11715/15190	03.50–03.59
16.15–17.15**	Persian	7225/9680	16.16–16.25
We. Asia			
05.00–05.30	Arabic	15190/17705	05.05–05.15
17.30–18.30	Arabic	6180/7275	17.40–17.50
18.45–19.30	**French**	6135/7275	18.50–19.00
Portugal			
19.00–19.30	**Portuguese**	9680/11785	19.01–19.10
U.K., We. Europe			
19.45–20.45	**English**	7235/9635	19.46–19.55
We. Africa			
19.45–20.45	**English**	9690/11955	19.46–19.55

* Composite Prgr. in Swahili, English – ** Exc. Sat.

There will, be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes.

ANN.: Home Sce.: "This is All India Radio". **External Sce.:** "This is Delhi calling in the External Services of All India Radio".

INT.-SIG.: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, cello and tampura.



V. by QSL-card – **PUB.:** "India Calling" free of charge – Weekly prgr.journal in English and fortnightly prgr.journals in Hindi, Urdu, Tamil, Telegu, Gujerati and Bengali. Requests for free supply of copies may be made either to the Director of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned.

RADIO KASHMIR
SRINAGAR A: 1490 kc 201.3 m
SRINAGAR B: 6110 kc 49.10 m: Afternoon. 3277 kc 91.56 m: Morning+Evening & Night.
JAMMU: 990 kc 303.0 m: 02.00-03.30, 06.30–08.00, 13.00–17.30 – 4950 kc 60.61 m: Morning – 5960 kc 50.34 m: Afternoon – 3345 kc 89.69 m: Evening.

RADIO GOA: 880 kc 340.9 m.

INDONESIA

L.T.: see Time Table – **Pr. L.:** Indonesian.

RADIO REPUBLIC INDONESIA (Go.)
ADDR.: P.O. Box 157, Djakarta. **Cable:** RRI. **Te.:** GBR 5751. **L.P.:** Dir. Gen.: R. Maladi. Vice Dir. Gen.: Soekirman. Dir. Overseas Sce.: R. Soetojo. Dir. Tec.: Sce.: R. M. Soenario. Dir. Publ. Relations: R. Hardjodarsono.

HOME SERVICES

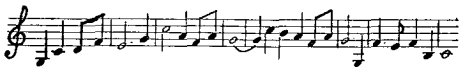
Call	kc	m	kW	Call	kc	m	kW
Djakarta (Java Central Station)				**Padang** (S. Sumatra)			
YDB	2460	121.95	1	YDA6	2390	125.5	0.3
YDD	3277	91.54	1	YDL2	2480	120.90	1
YDB4	3915	76.64	7.5	YDL	3960	75.76	10
YDB2	4805	62.42	20	YDL3	6170	48.62	10
YDF	6045	49.63	100	**Palembang** (S. Sumatra)			
YDB3	7270	41.26	7.5	YDK2	2430	123.50	1
YDE	11770	25.49	7.5	YDK	4855	61.79	10
YDC	15150	19.80	7.5	**Bukittinggi** (N. Sumatra)			
Bandung (W. Java)				YDM	4910	61.10	0.3
YDA2	2420	123.96	0.25	**Kotaradja** (N. Sumatra)			
YDA	3205	93.60	10	YDN	2390	125.50	0.1
YDA3	4945	60.76	10	YDN2	4985	60.18	1
Djember (E. Java: relay)				**Pakanbaru** (N. Sumatra)			
YDI	2330	128.74	0.3	–	5990	50.08	1
Medan (N. Sumatra)				**Makassar** (Sulawesi)			
YDP2	3395	88.37	1	YDQ4	2490	120.5	0.3
YDP	5030	59.64	7.5	YDQ	4750	63.16	3
YDP3	7110	42.19	20	YDQ3	7295	41.12	20
Sibolga (Sumatra: relay)				YDQ2	9550	31.41	0.5
YDM6	2330	128.5	1	**Menado** (Sulawesi)			
YDM7	3237	92.66	1	YDS	3214	93.34	1
Bandjarmasin (Kalimantan)				YDS2	5990	50.08	1
YDO	3250	92.31	10	**Gorontalo** (Sulawesi)			
YDO2	5970	50.25	1	YDS	4900	61.22	1
Pontianak (Kalimantan)				**Denpassar** (Bali)			
YDW	2350	127.6	1	YDU7	2420	123.96	1
YDW2	3375	88.89	5	YDU2	3945	76.05	10
Samarinda (Kalimantan: relay)				YDU6	7118	42.14	10
YDY	3295	91.00	1	**Ambon** (Maluku)			
Jogjakarta (C. Java)				YDR3	3241	92.56	10
YDJ3	2350	127.65	1	YDR2	7140	42.02	1
YDJ	5047	59.43	7.5	**Ternate** (Maluku: relay)			
YDJ2	7255	41.36	20	YDZ	2460	121.95	1
Madium (E. Java: relay)				YDZ2	3915	76.64	5
YDG	3286	91.26	0.3	**Tdj., Pinang** (Sumatra: relay)			
Semarang (C. Java)				YDX	4930	60.85	1
YDH	2490	120.48	1	**Kupang** (Nusa Tenggara)			
YDH2	3935	76.24	5	YDV	3259	92.05	0.3
YDH3	7210	41.16	5	**Mataram** (Nusa Tenggara)			
Surabaja (E. Java)				YDX	3223	93.09	1
YDI3	2370	126.50	1	**Singaradja** (Nusa Tenggara)			
YDI2	3975	75.48	10	YDU	4840	61.98	0.3
YDI4	6120	49.02	5	**Sumenep** (Madura)			
Surakarta (C. Java)				YDI20	3355	89.41	0.3
YDG2	2400	125.0	1	**Soa Siu** (West Irian Province)			
YDG3	4875	61.54	10	YDT	3960	75.75	1
Tjirebon (W. Java: relay)							

National Prgr. (Djakarta): 22.28–23.45 (Sun 23.28–04.30) on 2460/4805/6045 kc, 05.27–06.45 (Sun 04.30–06.45) on 2460/11770/15150 kc, 09.30–15.30 on 4805/6045 kc (from 11.30 also on 2460 kc), 15.30–16.30 on 4805 kc.
N.: W: 22.30, 23.30, 04.30, 05.30, 11.30, 12.30, 14.30. Sun: 23.30, 00.30, 04.30, 05.30, 11.30, 12.30, 14.30 – **L.L.:** English: Sun, Mo, Thurs 13.30. Indonesian: Wed, Fri, Sat 13.30.
Local Prgr. (Djakarta): 09.30–11.30 on 2460 kc.
Third Prgr. (Djakarta): 22.28–23.30 on 3277/3915 kc (Sun 23.28–02.30 on 3277/7270 kc), 09.30–15.30 on 3277/3915 kc.
Bandung, Jogjakarta, Semarang, Surabaja, Surakarta, Tjirebon, Bandjarmasin, Pontianak: W: 22.27–23.45, 05.27–06.45, 09.27–15.30. Sun: 23.27–06.45, 09.27–15.30.
Padang, Bukittinggi, Kotaradja: W: 23.27–00.45, 06.27–07.45, 10.27–16.30. Sun: 00.27–07.45, 10.27–16.30.

Djember, Madium: D: 22.27–23.45, 09.27–15.30. Sun: 23.27–06.45, 09.27–15.30.
Gorontalo, Kupang: D: 09.57–14.00 – **Ternate, Soa Siu:** 09.27–14.30.
Palembang: W: 22.57–00.15, 05.57–07.15, 09.57–16.00. Sun: 23.57–00.45, 09.57–16.00.
Medan: W: 23.27–01.30, 06.27–08.15, 10.27–16.30. Sun: 00.27–08.15, 10.27–16.30.
Sibolga: W: 23.27–00.45, 10.27–16.30. Sun: 00.27–01.45, 10.27–16.30.
Makassar: W: 21.57–23.15, 04.57–06.45, 08.57–15.00. Sun: 22.57–06.15, 08.57–15.00.
Menado: W: 22.00–23.15, 05.00–06.45, 09.00–15.00. Sun: 23.00–06.15, 09.00–15.00.
Denpassar: W: 22.25–23.45, 05.25–06.45, 09.30–15.30. Sun: 23.25–06.45, 09.30–15.30.
Ambon: W: 21.30–22.45, 04.27–05.45, 08.30–14.30. Sun: 22.30–05.45, 08.30–14.30.
Tdj. Pinang: D: 10.27–16.30 – **Mataram:** D: 10.27–14.30 – **Singaradja:** D: 10.27–14.30 (relay).
Sumenep: D: 22.27–23.45, 09.27–15.30. Sun: 23.57–01.30, 09.27–15.30.

ANN.: Nat. Prgr.: Indonesian: "Inilah Radio Republic Indonesia di... (name of the station).

INT.-SIG.: Nat. Prgr.:



played on hammond organ by Sudarnoto. **V.** by QSL-card or letter.

FOREIGN SERVICE FROM DJAKARTA

	kc	m	kW		kc	m	kW
YDD	1111	270.0	2.5	YDF2	11715	25.61	100
YDD	3277	91.55	1	YDE	11770	25.49	7.5
YDF5	7220	41.55	7.5	YDF2	11785	25.46	100
YDB3	7270	41.27	7.5	YDF3	11795	25.43	20
YDF6	9585	31.30	50	YDF2	11825	25.37	100
YDF6	9710	30.90	50	YDC	15150	19.80	100
YDF8	9865	30.40	50	YDF4	17810	16.84	50

English: 11.00–12.00 (Au, NZ, Pa) on 9585/11795 kc, 14.30–15.30 (So. Ea. As., India, We. No. Am.) on 9585/11795 kc, 19.00–20.00 (Eu., NZ) on 9865/11715 kc.
French: 17.00–18.00 (Eu., ME., Af.) on 9865/11715 kc.
Indonesian: 18.00–19.00 (Eu., ME.) on 9585/11715 kc. 01.00–02.00 (Am., So. Ea. Asia) on 9585/11795 kc.
Chinese: 12.00–13.00 (So. Ea. Asia) on 9585/11795 kc.
Arabic: 13.00–14.00 (So. Ea. Asia) on 9585/11795 kc, 16.15–17.00 (ME.) on 9864/11715 kc.
Hindi: 15.30–16.00 (So. Asia, Af.) on 9585/11795 kc.
Urdu: 14.00–14.30 on 9585/11795 kc.

ENGLISH:
N.: 11.15, 14.45, 19.15 – **"Indonesia in Word and Music":** Mo 11.42, 15.12, 19.42 – **"From Indonesian History":** Tues: 11.35, 15.05, 19.35 – **"My Country and my People":** Thurs: 11.35, 15.05, 19.35 – **"Indonesian Music":** Sun: 11.25, 14.55, 19.25. Fri: 11.02, 14.32, 19.02. Sat: 11.43, 15.13, 19.43 – **"Turntable Time":** Tues: 11.43, 15.13, 19.43. (Request Prgr. consisting of Western songs and popular Indonesian tunes).
FRENCH: N.: 17.41.

INDONESIAN PRGR.: N.: 18.15, 18.55, 01.15, 01.55.
ANN.: E.: "This is the Voice of Indonesia broadcasting from Djakarta". **F.:** "Ici Djakarta, la voix de l'Indonésie".
INT.-SIG.: Some instrumental music in accordance with the genre of the next programme – **V.** by QSL-card or letter. Listeners rep.s are welcome.
PUB.: Weekly: "Mingguan Radio", (home prgr.) – Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesian, Hindi, Urdu, Chinese, Arabic, English, French, Dutch); Write to "Voice of Indonesia", RRI, P.O. Box 157, Djakarta.

IRAN

L.T.: GMT+3½ h – **Pr.L.:** Persian.

GENERAL DEPARTMENT OF PUBLICATIONS AND BROADCASTING (Go.)
FI.: By Go. – **AD.:** Allowed, income goes straight to the Treasury. D 4 times (resp. 2, 2, 2, 15 mins.).
ADDR.: Radio Iran, Moidan Ark, Tehran. **Cable:** "Entesharat va Radio". **Te.:** 51161 – **L.P.:** Deputy Prime Minister: H. E. N. Moinian. Mgr.: T. Rowhani. Dir. Tec.: M. R. Atefi. Dir. For. Rel.: YN. Laouri.

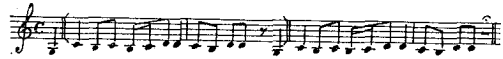
STATIONS (R. Iran, R. Teheran).

kc	m	kW	kc	m	kW	kc	m	kW
895	335.2	50	3780	79.35	20	7031	42.62	100
1325	226.5	100	3840	78.13	20	7085	42.32	100
1338.5	224.0	1/100						

HOME SERVICE
07.55–12.15, 12.26–17.30 on 1325/3780/7085 kc, 17.30–20.30 on 1325/3840 kc, 20.30–01.30 on 1338 kc, 01.30–06.33 on 1338.5/3840/7085 kc.
N. in Persian: 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 08.30, 09.30, 10.30, 11.00, 12.30, 13.30, 15.30, 16.30, 17.30, 19.30, 20.30, 21.30, 22.30 23.30 – **Wrp.:** 03.30, 11.00, 17.30.
R. TEHRAN, in Persian:
On 895 kc: 02.55–04.30, 06.25–09.30, 13.25– 17.30.

FOREIGN SERVICE
To Europe: 19.30–21.00 on 895/7031 kc: 19.30 Persian, 20.00 Russian, 20.15 Turkish, 20.30 **French,** 20.45 **English.**

ANN.: E.: "This is Teheran, Radio Iran" – F.: "Ici Teheran, Radio Iran" – Turkish: "Burasi Tahran, Iran Radyosu" – Russian: "Govorit Tegeran, Radio Iran" – Urdu: "Radio Iran – Zahedan" – Kurdish: "Dani Irana, Bashi Kurdi" – Arabic: "Huna al Ahwaz, Dar'el Isa'a al Iraniya" – Baluchi: "Ada Zahedan, Radio Iran" – Persian: "Inja Teheran ast, Radio Iran" – **INT.-SIG.:** Iranian melody played on Tar (Persian string instrument). (Beginning of the "Mahour" one of the seven sets of Iranian Music).



V. by letter. Re. to R. Iran, Int. Sce. – **F.PL.:** Two new 100 kW s.w.-tr's in March 1963 – **PUB.:** "Facts about Iran" (weekly) in English, French, "Iran Today" (Quarterly) in English.

REGIONAL STATIONS
R. Tabriz: 640 kc 468 m 5 kW – 6155 kc 48.74 m 7.5 kW: 02.25–05.00, 07.25–12.00, 12.55–18.30. **Russian:** 17.45.
R. Rezaieh: 1000 kc 300 m 0.2 kW – 8040 kc 37.31 m 0.4 kW: 11.55–17.00.
R. Isfahan: 1440.2 kc 208 m 1 kW: 11.53–17.30.
R. Zahedan: 777 kc 387 m 100 kW: 13.25–19.30: Urdu 15.00.
R. Sanandaj: 920 kc 326 m 1 kW – 6700 kc 44.44 m 0.4 kW: 02.57–13.27, 13.30–17.30.
R. Kermanshah: 985 kc 302 m 100 kW: 11.00–19.30: Kurdish 15.30, 16.50.

Imperial Government of Iran
General Department of Publications and Broadcasting

OFFERS YOU ITS SERVICES

Information Service:

Provides assistance and guidance to all foreign correspondents and news agency representatives visiting Iran, including interviews with personalities and visit to historical and developed sites, also prepares and distributes publications, documentary films, slides and photographs on Iran. Tel 56718.

International service:

Conducts programme exchange service of news, recorded music and series of informative and descriptive radio programmes about Iran in English, German, French and Turkish languages.

ALL SERVICES ARE FREE OF CHARGE

Interested news agencies and broadcasting organizations throughout the world are invited to contact:

GENERAL DEPARTMENT OF PUBLICATIONS AND BROADCASTING

Meidan Ark, Teheran, Iran Tel 51161–4

R. Gorgan: 1466.8 kc 205 m 1 kW: 13.53–18.00
R. Shiraz: 1050 kc 285 m 1 kW: 12.55–18.00.
R. Rasht: 680 kc 440 m 1 kW: 13.28–17.30.
R. Kerman: 1090 kc 275 m 1 kW: 12.27–17.30.
R. Mashad: 1100 kc 272 m 1 kW: 13.25–17.30.
R. Ahwaz: 1390 kc 215.8 m 100 kW: 12.25–19.30: Arabic 03.30–08.00, Persian lessons (in Arabic) Sun, Wed 17.30.

IRAQ

L.T.: GMT+3 h – Pr. L.: Arabic, Kurdish, Turkuman.

BROADCASTING STATION OF THE REPUBLIC OF IRAQ (Go.)

ADDR.: Directorate General of Broadc. and Television, Salihiya, Baghdad. Cable: Broadcasts. Te.: 31101 – L.P.: Dir. Gen. A. S. Rashid. Dir. of Broadc. A. H. Samiraee. Dir. Prgr. A. J. Welly. Dir. TV. A. R. Fowzi. Dir. Tec. M. A. Baghdadi.

STATIONS: (Systems: Marconi, Russian).

kc	m	kW	kc	m	kW	kc	m	kW
764	392.6	150/300	3240	92.59	50	6155	48.74	50
908	330.0	200	3990	75.19	50	7180	41.78	100
1350	222.2	20	6030	49.75	100	9555	31.40	50
						9635	31.14	50

HOME SERVICE: Arabic: 02.30–05.30 on 908/6155/7180 kc, 05.30–07.00 on 908/6155 kc, 10.00–22.00 on 908/764/3990/6155/7180/9555 kc, 22.00–22.15 on 908/3990/7180/9555 kc.
N.: 03.00, 05.00, 11.00, 15.00, 16.00, 17.00, 19.00, 22.00, also at 18.30, 21.00 on 764/3990 kc – Wrp.: 19.00 – T.S.: Pips every h, clock striking at 05.00, 11.00, 15.00, 17.00, 19.00.
Kurdish, Turkuman: 02.30–05.30 on 1350/3240/6030 kc, 05.30–07.00 on 1350/3240 kc, 10.00–18.30 on 1350/3240/6030 kc.
FOREIGN SERVICE:
Urdu on 6030/9635 kc 18.30–19.00, Persian on 3240/6030 kc 19.00–19.45, Turkish on 3240/6030 kc 19.45–20.30, French 20.30–21.00, German 21.00–21.30, English 21.30–22.00 on 6030/9635 kc.
ANN.: "Itha'at Al-Jemhoriya Al-Iraqiya Fi Baghdad" (The Broadcasting Service of the Iraqi Republic in Baghdad).
INT.-SIG.: Soft chirps of a mechanical nightingale – V. by QSL-card. Re. to Chief Eng. – F.PL.: Mw. st's at Basra, Kurkuk – PUB.: Prgr. schedule (monthly in Arabic).

ISRAEL

L.T.: GMT+2 h – Pr. L.: Hebrew, Arabic.

ISRAEL BROADCASTING SERVICE (Go.)

FI.: By state, license payments, adv. AD.: 5 min. of prgr. per h.
ADDR.: Kol Jisrael, Israel Broadc. Sce., Broadcasting House, Jerusalem. Cable: Kolyisrael. Te.: 28161 – L.P.: Dir. Gen.: H. Givton. Dept. Dir. (Planning) Dr. Y. Spiro. Dept. Dir. (Adm.): Z. M. Kenner. Dir. Prgr.: Mrs. L. Porath. Dir. N. & Current Events: A. Gordon. Dir. Overseas Broadcasts.: G. Wigoder. Dir. Arabic Prgr.: Y. Hazma. Dir. Operations: N. Rogel. Head Foreign Relations: Mrs. R. Smilan. Dir. Tec.: M. Berman – Ministry of Posts.

STATIONS: Medium Waves:

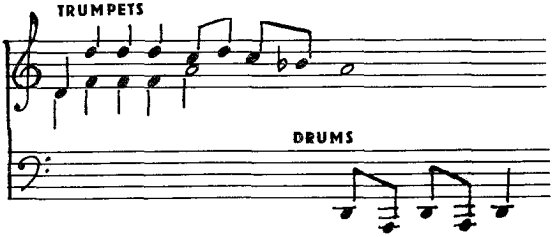
kc	m	kW	Call	Prgr.	kc	m	kW	Call	Prgr.
575	522	50/10	4XB36	A	1097	273.5	1	4XB43	A
656	457	100	4XB47	B	1169	256.6	1	4XB23	A
710	422.5	1	4XB20	B	1205	249	10	4XB35	A
737	407	100/200	4XB34	D	1336.5	224.5	1.5	4XB42	E
845	355	1			1358	220	0.5	4XB53	E
1025	292	0.5	4XB48	B					
Short Waves:									
9009	33.3	50/7.5	4XB31	C	7189	41.7	20	4XB49	D
9725	30.85	20	4XB51	E					

FM: (For radio links only between studios and transmitters).

Mc	kW	Call	Mc	kW	Call	Mc	kW	Call	Mc	kW	Call
71.5	0.04	4XB45	89.3	0.25	4XB32	93.3	0.25	4XB39	99.3	0.25	4XB55
88.3	0.25	4XB37	90.3	0.25	4XB33	94.3	0.25	4XB52	99.7	0.04	4XB46
88.8	0.25	4XB54	93.1	0.25	4XB38						

HOME SERVICES:
Main Prgr. in Hebrew (Prgr. A) on 575/1169/1205/1358/845 kc: 04.00–06.00, 09.00–12.00, 15.00–21.00 – N.: 04.00, 05.00, 06.00, 11.30, 15.00, 17.00, 19.00, 21.00.
Prgr. in Hebrew, Yiddish, Ladino, French, English, Rumanian on 656/710/1097 kc: 14.00–21.00 – Special Prgr. for UN Emergency Forces (in French, English, Swedish): 14.00–15.00 – Light prgr.'s with commercials: 14.00–17.00, 19.30–21.00.
Arabic Prgr.: D on 737/1025/7189/9725 kc: 04.30–05.15, 11.15–12.15, 15.30–21.15.
ANN.: Home Sce.: "Kolyisrael Miyerushalayim".
INT.-SIG.: Traditional Bible constellation played on obo strings.

FOREIGN SERVICE on 9009 kc (Prgr. C).
To Latin America: 04.15–04.30 Yiddish – To So. Africa: 16.00–17.00 (Yiddish 16.00, English 16.30) To Europe: 18.00–18.45, 19.00–20.45: 18.00 Moroccan Arabic, 18.15 Persian. 19.00 Rumanian, 19.15 Hungarian, 19.30 Hebrew, 19.45 French, 20.15 English).
To We. Africa: 21.00–22.00 (21.00 French, 21.30 English).
NEWS: English: 16.50, 20.15, 20.44, 21.50. French: 19.45, 20.15, 21.20.
ANN.: E: "This is Kolyisrael the Voice of Israel, Broadcasting from Jerusalem" – INT.-SIG.:



V. by QSL-card – F.PL.: FM. – PUB.: "Radio" Kolyisrael weekly.

JAPAN

L.T.: GMT+9 h – Pr. L.: Japanese.

NIPPON HOSO KYOKAI (Public Corporation, non-comm.) (The Japan Broadcasting Corporation).

FI.: The expenses for the domestic service are drawn from license payments, the expenses for the external services are provided partly by the Go., and partly by license payments.
ADDR.: No, 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. Cable: Radio NHK. Te.: (501)4111.
L.P.: Chairman, Board of Governors: Y. Chiba. Pres.: S. Abe. Vice Pres.: K. Mizogami. Gen. Man. Dir's: Y. Maeda, Y. Tanabe, K. Ono. Man. Dir's: M. Akagi, Y. Kasuga, S. Shimaura, I. Matsui, K. Shudo, F. Mikuma, S. Tochizawa. Chief, Prgr. Inspection Board: M. Miyagawa. Chief, Public Rel. Board: H. Asanuma. Dir. Gen. of Broadc. Man. Dir.: Y. Kasuga. Chief, Gen. Broadc. Bureau. Sound prgr.: M. Udoyama. Chief, Gen. Broadc. Bureau. (TV prgr.): J. Suzuka. Chief, (Prgr. Publicity), Gen. Broadc. Bureau: S. Kawasaki. Dir. Education: M. Nagahama. Dir., Entertainment: T. Nagasawa. Dir. News: K. Sano. Chief News Commentator: G. Fujise. Dir. Technical Operation: T. Hirata. Dir. Prgr. Sce.: Y. Yoshida. Dir. Overseas Broadc. Dept., Man. Dir.: I. Matsui Dir. General Affairs: S. Kato. Dir. Finance: Y. Hirokawa. Dir. Engineering: S. Shimizu. Dir. Facilities Construction: U. Tsuji. Dir. Subscription: S. Kubo. Dir.Radio & TV Cultural Research Institute: K. Katagiri. Dir. Technical Research Laboratories: T. Nomura. Dir. Central Training Institute: T. Matsunaga. Dir. Tokyo Olympics Broadc. Headquarters: I. Matsui.
STATIONS: Medium Waves: The medium-wave (535–1650 kc) transmitters are used for domestic radio service in the 1st and 2nd networks, both extensive enough to place the entire country under coverage.

STATIONS: [1])=1st Netw. [2])=2nd Network.

Call	kc	kW
°Sapporo		
[1])IK	570	100
[2])IB	750	100
Hakodate		
[1])VK	680	1
[2])VB	1470	1
Esashi		
[1])–	1030	0.05
[2])–	1360	0.05
Kariba		
[1])–	1160	0.1
[2])–	1540	0.1
Matsumae		
[1])–	1160	0.05
Asahikwa		
[1])CG	620	1
[2])CC	1470	1
Wakkanai		
[1])IQ	980	1
[2])IY	1470	0.5
Nayoro		
[1])CY	600	1
[2])AZ	1320	1
Rumoi		
[1])IX	1160	0.05
[2])CI	1360	0.05

Call	kc	kW
Nakatonbetsu		
[1])–	1030	0.05
Tobetsu		
[1])–	790	1
[2])–	1600	1
Obihiro		
[1])OG	660	1
[2])OC	1080	1
Hiroo		
[1])–	1030	0.05
Kushiro		
[1])PG	640	10
[2])PC	1070	10
Nemuro		
[1])PQ	1030	0.1
[2])PS	1360	0.1
Nakashibetsu		
[1])–	1340	0.1
[2])–	1540	0.1
Kitami		
[1])KP	1150	10
[2])KD	1370	10
Muroran		
[1])IU	780	1
[2])IT	1080	1

Call	kc	kW
Urakawa		
[1])–	1340	0.1
°Sendai		
[1])HK	890	10
[2])HB	1090	10
Kesennuma		
[1])HS	1160	0.1
[2])HU	1540	0.1
Akita		
[1])UK	760	10
[2])UB	1590	10
Odate		
[1])UT	1160	0.1
[2])UV	1360	0.1
Yokote		
[1])–	1030	0.1
[2])–	1540	0.1
Hanwa		
[1])–	1340	0.1
Yamagata		
[1])JG	540	1
[2])JC	1470	1
Yonezawa		
[1])JQ	1030	0.05
[2])JZ	1360	0.05

Call	kc	kW
Shinjo		
[1])JS	1340	0.05
[2])JT	1540	0.05
Tsuruoka		
[1])JP	1440	1
[2])JD	1080	1
Morioka		
[1])QG	650	10
[2])QC	1220	10
Kama		
[1])QS	580	0.1
[2])QT	1470	0.1
Mixako		
[1])–	1030	0.1
[2])–	1360	0.1
Ofunato		
[1])–	1030	0.1
[2])–	1360	0.1
Kuji		
[1])–	1340	0.1
Iwaizumi		
[1])–	790	0.1
Fukushima		
[1])FP	580	0.1
[2])FD	1320	0.1

Radio Japan

JAPAN BROADCASTING CORPORATION (NHK)
TOKYO JAPAN

It Presents

Real Information & Fascinating Music

Call	kc	kW
Koriyama		
1)	CP 620	1
2)	CD 1510	1
Wakamtsu		
1)	HT 1160	0.1
2)	HY 1540	0.1
Tadami		
1)	– 1030	0.1
Tajima		
1)	– 1340	0.1
Taira		
1)	HQ 1340	0.1
2)	HZ 1540	0.1
Soma-Haramchi		
1)	– 1160	0.1
Aomori		
1)	TG 960	1
2)	TC 1320	0.5
Hirosaki		
1)	RG 1440	0.5
2)	RC 820	0.5
Fukaura		
1)	– 1340	0.1
Hachinohe		
1)	TQ 1000	1
2)	TZ 1510	1
***Tokyo**		
1)	AK 590	100
2)	AB 690	100
Nakano		
1)	NK 620	1
2)	NB 1320	1
Komoro		
1)	NQ 1030	0.1
2)	NZ 1540	0.1
Ueda		
1)	– 1340	0.1
2)	– 1470	0.1

Call	kc	kW
Matsumoto		
1)	SG 540	1
2)	SC 1510	1
Iidaa		
1)	SQ 620	1
2)	SZ 1320	0.5
Ina		
1)	– 1340	0.05
2)	– 1540	0.05
Okaya-Suwa		
1)	SU 1160	0.1
2)	SI 1360	0.1
Kyso-Fukushma		
1)	– 1030	0.1
2)	– 1600	0.1
Komagane		
1)	– 1240	0.1
Niigata		
1)	QK 840	10
2)	QB 1190	10
Takada		
1)	QX 790	0.1
2)	QV 1360	0.1
Kofu		
1)	KG 980	1
2)	KC 1470	1
Fuji-Yoshida		
1)	YP 1340	0.1
°**Nagoya**		
1)	CK 730	10
2)	CB 910	10
Takayama		
1)	CQ 790	1
2)	CZ 1470	0.5
Ueno		
1)	CT 1160	0.1

Call	kc	kW
Oase		
1)	CU 1160	0.1
2)	DS 1540	0.1
Nakatsugawa		
1)	– 1160	0.1
2)	– 1360	0.1
Kamioka		
1)	– 1340	0.05
2)	– 1080	0.05
Gujo-Hachiman		
1)	– 1300	0.05
Hagiwara		
1)	– 1340	0.05
Kumano		
1)	– 1300	0.1
Toyonashi		
1)	CS 1160	0.1
2)	CV 1360	0.1
Knazawa		
1)	JK 1170	10
2)	JB 1390	10
Nanao		
1)	JU 540	0.1
2)	JV 1470	0.1
Wajima		
1)	– 1160	0.05
2)	– 1360	0.05
Shizuoka		
1)	PK 880	10
2)	PB 1500	10
Hamamatsu		
1)	DG 580	1
2)	DC 1080	1
Fukui		
1)	FG 980	1
2)	FC 1520	1

Call	kc	kW
Tsuruga		
1)	FT 1030	0.1
2)	FZ 1470	0.1
Obama		
1)	FY 1160	0.1
2)	FQ 1360	0.1
Katsuyama		
1)	– 1160	0.1
2)	– 1360	0.1
Toyama		
1)	IG 580	1
2)	IC 1520	1
°**Osaka**		
1)	BK 670	100
2)	BB 830	100
Shingu		
1)	BQ 1030	0.1
2)	BY 1360	0.1
Toyooka		
1)	BU 1160	0.1
2)	BV 1540	0.1
Tanabe		
1)	BT 1160	0.1
2)	TD 1360	0.1
Hikone		
1)	BS 780	0.1
Koza		
1)	– 1340	0.05
2)	– 1600	0.05
Kazumi		
1)	– 1340	0.1
Kiyoto		
1)	OK 1300	1
2)	OB 1510	1
Fukuchiyama		
1)	OT 1030	0.1
2)	OS 1360	0.1

Call	kc	kW
Maizuru		
1)	OQ 1340	0.1
2)	OZ 1540	0.1
Miyatsu		
1)	– 1000	0.1
°**Hiroshima**		
1)	FK 770	10
2)	FB 1070	10
Shiobara		
1)	– 1160	0.05
2)	– 1360	0.05
Miyoshi		
1)	– 1440	0.1
2)	– 1080	0.1
Tojo		
1)	– 790	0.1
Onomichi		
1)	DP 1000	1
2)	DD 1470	1
Okayama		
1)	KK 600	3
2)	KB 1600	3
Tsuyama		
1)	KU 1160	0.1
2)	KT 1540	0.1
Niimi		
1)	KI 1340	0.1
2)	KV 1540	0.1
Matsue		
1)	TK 850	10
2)	TB 1290	10
Hamada		
1)	TS 1030	0.1
2)	TT 1360	0.1
Masuda		
1)	– 1340	0.1
2)	– 1540	0.1

Call	kc	kW
Tsuwano		
1)	– 1160	0.1
2)	– 1360	0.1
Iwami		
1)	– 620	0.05
Kwamoto		
1)	– 1300	0.05
Tottori		
1)	LG 1300	1
2)	LC 1080	1
Kurayoshi		
1)	– 1030	0.1
2)	– 1360	0.1
Yonago		
1)	LQ 780	1
2)	LU 1520	1
Yamaguchi		
1)	UG 680	5
2)	UC 820	5
Hagi		
1)	UQ 960	1
2)	UZ 1600	0.5
Shimonoseki		
1)	UI 1160	0.1
2)	UU 1360	0.1
°**Matsuyama**		
1)	ZK 960	3
2)	ZB 1510	1
Uwajima		
1)	ZU 1440	1
2)	ZY 1600	1
Ozu		
1)	– 790	0.1
Niihama		
1)	ZQ 620	0.1
2)	ZZ 1540	0.1
Imabari		
1)	ZT 1160	0.05

Call	kc	kW
Yawatahama		
1)	ZS 580	0.1
2)	ZI 1080	0.1
Johen		
1)	– 1340	0.05
2)	ZX 1080	0.05
Uwa		
1)	– 1030	0.05
Kochi		
1)	RK 990	10
2)	RB 1370	10
Nakamura		
1)	RQ 1000	1
2)	RY 1520	0.5
Yusuhara		
1)	– 1160	0.1
2)	– 1470	0.1
Sukumo		
1)	– 1030	0.05
Taishio		
1)	– 1300	0.1
Tokushima		
1)	XK 780	1
2)	XB 1520	1
Ikeda		
1)	XI 1160	0.1
2)	XU 1360	0.1
Mugi		
1)	– 1030	0.1
Takamatsu		
1)	HP 1300	1
2)	HD 1080	0.5
Kannonji		
1)	– 1030	0.1
°**Kumamoto**		
1)	GK 930	10
2)	GB 1590	10

Call	kc	kW
Hitoyoshi		
1)	GQ 1240	1
2)	GV 1600	1
Fukuoka		
1)	LK 610	100
2)	LB 870	100
Kokura		
1)	SK 1240	0.1
2)	SB 1600	0.1
Nagasaki		
1)	AG 660	1
2)	AC 1080	1
Shimabara		
1)	– 1160	0.02
Sasebo		
1)	AT 790	0.5
2)	AY 1510	0.5
Kagoshima		
1)	HG 700	10
2)	HC 1220	10
Naze		
1)	HI 580	1
2)	– 1320	1
Akune		
1)	– 1030	0.1
2)	– 1470	0.1
Miyazaki		
1)	MG 540	1
2)	MC 1470	1
Nobeoka		
1)	MT 620	1
2)	MX 1320	1
Miyakonojo		
1)	MQ 1160	0.1
2)	MU 1360	0.1
Kobayashi		
1)	– 1030	0.1
2)	– 1540	0.1

Call	kc	kW	Call	kc	kW	Call	kc	kW	Call	kc	kW
Nichinan			**Kushima**			**Saeki**			**Saga**		
1)–	1340	0.1	1)–	1030	0.05	1)–	1160	0.1	1)SP	960	1
2)–	1540	0.1	**Oita**			2)–	1520	0.1	2)SD	1320	1
Takachiho			1)IP	790	1	**Hita**			**Karatsu**		
1)–	1030	0.1	2)ID	1470	0.5	1)IV	1030	0.05	1)SV	1160	0.05
2)–	1360	0.1									

*=Headquarter. °=Regional Central Station.

HOME SERVICE

1st NETWORK: D 20.00–15.00 – **N.:** Every h exc. Sat 11.00 and Sun 01.00, 02.00, 05.00, 09.00, 11.00. One min. news at 23.30, 00.30, 01.30, 02.30, 04.30, 05.30, 06.30, 07.30, 08.30, 09.30, 11.00 – **Wrp.:** 20.59, 21.59, 22.59, 23.59, 02.55, 06.00, 08.00, 09.55, 10.00, 12.00, 14.58. Also Sat/Sun 03.59 – **Weather Map:** D 07.05 – **Mbg.:** W 21.50–21.59 – **T.S.:** Every h exc. Sat 10.00.

2nd NETWORK: D 20.30–15.00 – **English N.:** W 09.00–09.05 – **L.L.: English:** Mo–Fri 21.10, 10.00. **German:** Mo, Wed, Fri 22.00. **French:** Tues, Thurs, Sat 22.00. **Spanish:** D 20.30 – **Weather Map:** D 13.00. The two networks together are on the air for a grand total of 37.5 h*) – School prgr.s are specially presented over the 2nd network for 3 h and 35 min.s between 00.15–04.15.

*) Classified by broadc. hours (%). News 20.6, Social & Culture 35.7, Education 21.4, Entertainment 16.1, Sports 6.2.

FM: JOAK-FMX Tokyo 82.5 Mc, JOAB-FMX Osaka 88.1 Mc 10 kW exp.: D 00.00–15.00. Hiroshima 88.1 Mc, Fukuoka 84.8 Mc 10 kW exp.: D 00.00–13.00.

HOME SERVICE RELAYS ON SHORT WAVES:
1st Network: JKH 7230 kc 41.49 m: 20.00–22.15, 07.55–10.00 – JKH2 9655 kc 31.07 m: 22.25–07.45.
2nd Network: JKI 7285 kc 41.18 m: 20.30–10.00.

FOREIGN SERVICE (R. Japan)

I=So. Asian Sce.; II=Middle East & No. African Sce.; III=European Sce.; IV=No. American Sce.; V=Latin American Sce.; VI=No. & Latin American Sce.; VII=Hawaiian Sce.; VIII=Australia, New Zealand Sce.; IX=Korean Sce.; X=Asian Continent Sce.; XI=East Asian Sce.; XII=Philippine & Indonesian Sce.; XIII=Southeast Asian Sce.; XIV=African Sce.

STATIONS: 10/20/50/100 kW.

kc	m	kc	m	kc	m	kc	m
6080	49.34	9675	31.01	11815	25.39	15235	19.69
6140	48.86	9695	30.94	11855	25.31	15325	19.59
7195	41.70	9740	30.80	11875	25.26	15380	19.51
9505	31.56	11705	25.63	11940	25.13	15390	19.49
9525	31.50	11725	25.59	15105	19.86	17725	16.93
9530	31.48	11780	25.47	15135	19.82	17755	16.90
9605	31.23	11800	25.42	15195	19.74	17795	16.86
						17895	16.76

Times	Sce.	kc	Languages
15.00–16.30	I	9525, 11780	a)
16.45–18.45	II	7195, 9525, 11780	b)
19.00–20.00	XIV	9525, 11875	d)
23.30–00.30	IV	15135, 15390, 17895	e)
02.00–04.00	VI	11780, 15235, 17725, 17895	f)
05.30–07.00	VII	15235, 17725	e)
06.15–08.45	III	11780, 15135, 17895	e)
09.00–10.30	V	9530, 11705, 15390	g)
09.30–10.30	VIII	11875, 15235	n)
10.45–11.45	IX	6140, 7195, 9695	h)
10.45–12.15	X	9675, 11705	i)
12.00–14.30	XI	7195, 9695, 11940	k)
12.30–14.30	XII	11780, 15135	l)
13.00–16.00	XIII	9675, 11705	m)

General Sce. in English & Japanese: (each transmission of 30 min's duration): 00.00, 01.00, 02.00, 03.00, 04.00 on 15105, 15195, 15325 kc, 05.00, 06.00 on 15105, 15195, 15325 kc, 07.00, 08.00, 09.00 on 9505, 15195, 15325 kc, 10.00 on 9505, 9605, 15325 kc, 11.00, 12.00, 13.00, 14.00 on 9505, 9605, 9740 kc, 15.00, 16.00, 17.00, 18.00, 19.00 on 9605, 9740, 11725 kc.

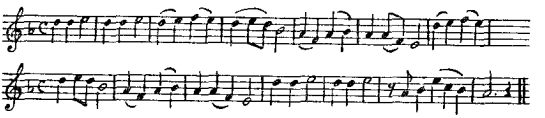
Languages: a) Hindi, English, Urdu, Bengali – b) Arabic, French, English, Japanese – c) Russian, German, French, Italian, English, Swedish, Japanese – d) English, French, Japanese – e) English, Japanese – f) Spanish, Japanese, English – g) Japanese, Portuguese, Spanish – h) Korean, Japanese – i) Chinese, Russian – k) Japanese – l) English, Indonesian – m) Chinese, French, Vietnamese, English, Thai – n) English.

NEWS: English: 15.30 (I), 17.50 (II), 19.00 (XIV), 23.30 (IV), 03.15 (VI), 05.30 (VII), 07.45 (III), 09.30 (VIII), 12.30 (XII), 14.45 (XIII) and in General Sce. at the beginning of each transmission – **French:** 17.20 (II), 19.25 (XIV), 07.15 (III), 14.20 (XIII) – **German:** 06.45 (III) – **Italian:** 09.30 (Mo) (III) – **Portuguese:** 09.50 (V) – **Spanish:** 02.00 (VI), 10.20 (V) – **Swedish:** 08.20 (Thurs) (III).

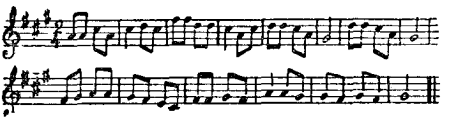
DX-PRGR. (in English): Sat 00.05 (IV), 03.45 (VI), 06.00 (VII), 15.05 (XIII), 15.50 (I), 18.15 (II), Sun 08.20 (III), 10.10 (VIII), 13.20 (XII).

ANN.: Home Service: The call-sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes, an announcement, "NHK" is made – On the 1st network, the call-sign and the station name are announced just before timecast – On the 2nd network, the call-sign and the station name are announced every hour at half past – **Foreign Service: English:** "This is Radio Japan, the overseas broadcasting service of NHK: We are broadcasting to... ("target area") – **French:** "Ici Radio Japon... (target area)" – **German:** "Hier ist Tokyo, der japanische Rundfunk... (target area)" – **Italian:** "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone – Reparto Servizio Internazionale di NHK..." – **Spanish:** "Aqui Radio Japon..." – **Portuguese:** "Estão ouvindo a Radio Japão..." – **Indonesian:** "Inilah Radio Djepang, siaran international dari NHK di Tokio...".

INT.-SIG.: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air – **Foreign Service:** Opening music "Sakura":



Intervalsignal music "Kazoe Uta":



PUB.: Graph NHK (twice a month) – NHK Hoso Bunka or NHK Broadcast Culture (monthly) – NHK Year Book (annual) – "R. Japan News" (monthly). Prgr.schedules are published annually in April, when the schedules are revised. The language used is Japanese – The prgr.sched. Overseas Sce. is published every time the prgr.s are changed. The Foreign Sce. sched. is distributed upon request. No return postage required – V. by QSL-card and by letter.

F.PL.: By the end of March 1963 exp. FM st's will start at Sapporo, Sendai, Nagoya, Matsuyama, Kumamoto – NHK has started the second Six-Year Plan in 1962 and it is estimated that by the end of 1967 radio st.'s will be increased to 161 for the first network and 127 for the second network and 153 for the FM broadcast.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR.: 8–7 Ginza-Nishi, Chuo-ku, Tokyo. **Cable:** Kyobashi Mimporen. **Te.:** 571-7161 – **L.P.:** Pres.: T. Adachi. Vice-Pres.: N. Shikanai, K. Muroya. Man. Dir.: S. Sakai. Secr. Gen.: Y. Isomura.

MEDIUM WAVES: Call: JO–––

	Call	kc	kW		Call	kc	kW		Call	kc	kW
1)	CR	560	10	25)	PF	940	5	36)	LF	1310	50
2)	DR	720	5	26)	KR	950	50	13)	SF	1330	10
3)	IL	720	1	27)	NR	1010	20	18)	ER	1350	10
4)	JF	740	5	16)	AR	1050	10	37)	UF	1380	20
5)	LR	740	5	2)	DL	1060	0.1	29)	VR	1400	5
6)	TO	800	0.1	2)	DM	1060	0.1	29)	3H	1400	0.5
7)	WE	800	0.1	4)	JL	1060	0.1	19)	QL	1400	1
8)	SL	800	0.1	7)	WR	1060	0.1	3)	IF	1410	10
8)	SE	800	0.1	7)	WW	1060	0.1	11)	5A	1420	0.05
9)	DE	800	0.1	11)	YE	1060	0.1	11)	YR	1420	3
10)	BO	800	0.1	13)	SM	1060	0.1	19)	TL	1420	1
11)	YO	800	0.1	23)	UE	1060	0.1	28)	GO	1430	1
12)	AL	800	0.1	28)	GE	1060	0.1	38)	VF	1430	3
3)	7AB	800	0.05	16)	AO	1060	0.1	19)	QM	1450	3
3)	IM	800	0.04	29)	VW	1060	0.05	39)	KF	1450	5
13)	OL	800	0.1	20)	JO	1060	0.1	25)	PL	1460	1
14)	HM	800	0.1	30)	FE	1060	0.04	23)	UO	1460	1
15)	ZO	800	0.1	30)	7AA	1060	0.05	40)	RF	1480	10
16)	AW	800	0.1	31)	BL	1060	0.1	19)	QF	1500	1
17)	IO	800	0.1	18)	EO	1060	0.1	30)	FO	1530	1
18)	EW	800	0.1	8)	SR	1100	1	9)	DO	1530	1
7)	FL	800	0.1	24)	NF	1100	1	24)	–	1540	0.1
16)	AW	800	0.1	9)	WO	1100	1	2)	DN	1560	0.1
19)	QN	800	0.1	32)	GF	1100	1	41)	CL	1560	0.1
20)	–	800	0.1	11)	BW	1110	1	6)	TE	1560	0.1
8)	SO	860	1	12)	AF	1120	3	10)	BE	1560	0.1
19)	HE	860	3	9)	DR	1120	5	12)	AM	1560	0.1
21)	PR	860	5	33)	QR	1130	50	13)	XO	1560	0.1
14)	HF	900	5	10)	BR	1140	10	38)	VM	1560	0.1
15)	ZR	900	5	34)	MO	1200	1	38)	VL	1560	0.1
19)	HO	900	1	8)	SW	1200	1	14)	HL	1560	0.1
14)	–	900	0.05	31)	BF	1200	5	21)	PO	1560	0.1
22)	EF	920	5	35)	OR	1210	20	24)	–	1560	0.1
22)	8AB	920	1	23)	UR	1230	5	32)	CL	1560	0.1
23)	MF	920	1	28)	GR	1230	5	16)	AE	1560	0.1
24)	–	920	0.05	23)	7B	1230	0.02	16)	–	1560	0.05
24)	–	920	1	17)	IR	1250	10	29)	VE	1560	0.1
25)	PM	920	0.1	30)	FR	1270	10	39)	KL	1560	0.1
6)	TR	940	5	19)	HW	1280	1	18)	EW	1560	0.1
25)	PN	920	0.05	20)	JR	1280	3				

Short Waves:

Call		kc	m	kW	Call		kc	m	kW
42)	Z	3925	76.43	50	42)	Z2	6055	49.55	50/10
42)	Z4	3945	76.05	10	42)	Z3	9595	31.27	50/10

1) **R. Kansai Ltd.**, 3–7, Isonare-cho, Suma-Ku, Kobe. **Te.:** 7-4321 – Pres.: K. Tanaka. Dir. Tec.: T. Masuda – 20.30–15.00 – **V.** by QSL-card – 2) **Iwate Broadc. Co.**, Morioka – Dir. Gen.: M. Yoshida – 20.00–15.00.

3) **Kyushu Asahi Broadc. Co.**, Fukuoka – Pres.: S. Kimura – 20.30–15.40 – **V.** by QSL-card – 4) **Yamanashi Broadc. System Inc.**, 288 Hyakoku-machi, Kofu – Pres.: J. Noguchi – 20.30–14.45.

5) **Kita-Nihon Broadc. Co.**, Toyama – Pres.: S. Yokoyama – 21.50–14.10

6) **Akita Broadc. System,** Akita – Pres.: Y. Takehana – 20.00–14.40.

7) **R. Fukushima Broadc. Co.**, Fukushima – 20.00–15.30.

8) **Shinetsu Broadc. Co.**, Nagano – Pres.: J. Katsuta – 20.00–15.05.

9) **Broadc. System of Niigata**, 3-18, Kawagishi-cho, Niigata – Pres.: E. Horiuchi.

10) **Kyoto Broadc. Co.**, Nakakyo-Ku, Kyoto – Pres.: K. Shiraishi – 20.30–17.00 – **V.** by QSL-card.

11) **Sanyo Broadc. Co.**, Okayama – Pres.: H. Taniguchi – 12) **Nankai Broadc. Co.**, Matsuyama – Pres.: Y. Yamanaka – 20.30–15.00 – **V.** by QSL-card.

13) **Tokai R. Broadc. Co.**, Higashi-Ku, Nagoya – Pres.: M. Abo – 20.00–18.00 – **V.** by QSL-card – 14) **San In Broadc. System,** Yonago – Pres.: O. Oda – 20.35–15.05 – 15) **R. Kochi Broadc. Co.**, Kochi – Chairman: Y. Fukuda.

16) **Chubu-Nippon Broadc. Co.**, Shinsakae-machi, Naka-Ku, Nagoya. Te.: 24-8111 – Pres.: K. Sasabe – 20.30–16.00 – **V.** by QSL-card. Prgr.schedule free on request.

17) **Tohoku Broadc. Co.**, Sendai – Pres.: K. Sasaki – 20.30–15.15.

18) **R. Chugoku Co.**, Hiroshima – Pres.: T. Tsukifuji – 20.30–15.00.

19) **Hokkaido Broadc. Co.**, Sapporo, Hokkaido. Te.: 3-8181 – Dir. Gen.: K. Muriya – 20.30–15.00 – **V.** by QSL-card.

21) **Fukui Broadc. Co.**, Fukui – Dir. Gen.: Y. Yoshida – 20) **Shikoku Broadc. Corp.**, Tokushima – Pres.: S. Maekawa – 20.30–16.10.

22) **Yamagata Broadc. Co.**, Yamagata – Pres.: Y. Hattori – 20.00–14.45 – **V.** by QSL-card – 23) **Nagasaki Broadc. Co.**, Nagasaki – Pres.: E. Nakabe.

24) **Miyazaki Broadc. Co.**, Miyazaki – Pres.: Y. Kuroki – 20.30–15.05 – **V.** by QSL-card – 25) **Yamaguchi Broadc. Co.**, Tokuyama – Pres.: K. Noguchi – 20.30–15.00 – **V.** by QSL-card.

26) **Tokyo Broadc. System.** Main Office: 36 Hitotsugi-cho, Akasaka, Minato-Ku, Tokyo. Cable: JOKR. Te.: 481-8711 – Dir. Gen.: Y. Tanaka, J. Imamichi. Dir. Tec.: M. Yoshida. Dir. Prgr.: F. Murata (Radio), N. Omori (TV) – 20.00–16.30 N 5 min. every h – JOKR Kochirawa Tokyo Hoso desu. E.: JOKR This is TBS – **V.** by QSL-card.

27) **Asahi Broadc. Corp.** Main Office and R.st.: Nakanoshima, Kita-Ku, Osaka. TV.st. Dojima, Kita-Ku, Osaka. Tokyo Office: New Asahi Shimbun Bldg., Yurakucho, Chiyoda-Ku, Tokyo. Cable: JONRTV. Te.: 231-8001 – **L. P.:** Chairman, M. Iijima. Pres.: K. Suzuki. Vice-Pres.: T. Hirai. Man. Dir. (Sales): T. Tateishi. Man. Dir. (Prgr.): K. Hara, Man. Dir. (Gen. Affairs): D. Ato. Dir. (Chief Eng.): K. Endoh. Dir. Tokyo Office: M. Kobayashi Dir. Prgr.: T. Sudoh, Dir. Tec.: Y. Habu. Dir. Gen. Affairs: Y. Fukuda.
D. PRGR.: 20.00 – 17.00. **N.:** W. 20.50, 21.50, 22.50, 23.55, 00.50, 01.50, 02.50, 03.50, 04.50, 05.50, 06.50, 07.50, 08.50, 09.50, 12.50, 13.50 Sun.: 20.50, 21.50, 22.50, 00.50, 02.50, 06.50, 09.50, 12.50, 13.50.
ANN.: "ABC Asahi Hoso, JONR" – **V.** by QSL-card – Pub.: "Radio and TV Asahi", monthly.

28) **Aomori Broadc. Corp.**, Aomori – Dir. Gen.: K. Sakamoto – 20.00–14.50 – 29) **Shizuoka Broadc. System,** Shizuoka – Pres.: M. Oishi – 20.30–14.30.

30) **RKB Mainichi Broadc. Co.**, Fukuoka – Pres.: H. Kaneko – 20.45–15.45 – 31) **Kumamoto Broadc. Corp.**, Kumamoto – Pres.: R. Fukami – D.Prgr. 23.50–04.40 & 08.30–16.30 – 32) **Oita Broadc. Service,** Oita – Dir. Gen.: S. Inoue – 20.30–15.00 – **V.** by QSL-card.

33) **Nippon Cultural Broadc. Inc.**, Shinjuku, Tokyo – Mgr.: S. Tomoda. 20.00–16.55 – "Okiki no Hoso wa Bunka Hoso 1130 kc desu" – **V.** by QSL-card – 34) **Hokuriku Broadc. Co.**, Kanazawa – Pres.: I. Saga – 20.30–15.00.

35) **Mainichi Broadc. System, Inc.** – Head Office: 53, Funadaiku-cho, Dojima, Kita-Ku, Osaka. Tokyo Office: Yuraku-cho, Chiyoda-Ku, Tokyo. Cable: Mainichihoso Osaka. Te.: Head Office: 361-8231 – Pres.: S. Takahashi – 20.30–15.30 – "Okiki no hoso wa MBS Mainichi-hoso desu" – **V.** by QSL-card.

36) **Nippon Broadc. System Inc.**, Yuraku-cho, Chiyoda-Ku, Tokyo – Dir. Gen.: T. Takahashi – 24 h – **N., Wrp.:** 00.30, 01.30, 03.30, 05.30, 06.30, 07.30, 09.30, 11.30, 12.30, 13.30, 14.30, 15.30, 17.30, 23.30 – "Okiki no Hoso wa 1310 kc Shutsu-ryoku 50 kW de ookuri shiteiru Nippon Hoso desu" ("This is Nippon Hoso") – **V.** by QSL-card.

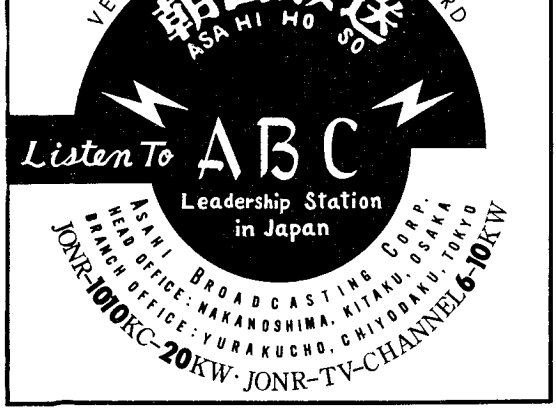
37) **Osaka Broadc. Co.**, Umeda-cho, Kita-Ku, Osaka. Te.: 361-1271 – Pres.: T. Maeda – 20.30–17.30 – "Okiki no Hoso wa OBC Radio Osaka desu" – **V.** by QSL-card.

38) **Wakayama Broadc. Corp.**, Wakayama – Pres.: K. Maeda – 20.30–15.30.

39) **Nishi-Nippon Broadc. Co.**, Takamatsu – Pres.: J. Hirai.

40) **R. Kanto,** Oimatsu-cho, Nishi-Ku, Yokohama – Dir. Gen.: R. Hirota – 20.00–16.35 – **V.** by QSL-card.

41) **Minaminihon Broadc. Co.**, 17, Korai-cho, Kagoshima – Dir. Gen.: M. Yamamoto – 23.50–13.55 – **V.** by QSL-card.



42) **Nihon Short-Wave Broadc. Co.**, Akasaka, Minato-Ku, Tokyo. Te.: 481-8151 – Dir. Gen.: Z. Takano. Mgr.: B. Ando. Dir. Tec.: S. Ito. Dir. Prgr.: H. Otomo – 20.30–15.45 – **N.**: 03.30, 08.30, 14.30, 23.30 – **ANN.**: "Okiki no Hoso wa Nihon Tampa Hoso desu" – **V.** by QSL-card.

FAR EAST NETWORK (AFRTS)

The network serves the members of the US-Forces serving in the F. East – **ADDR.**: Headquarters, Far East Network, APO 67, San Francisco – **Authority**: The stations of the FEN in Japan broadcast by authority of the Commander, US Forces, Japan, in cooperation with the Japanese Radio Regulatory Board. St.'s are linked by land line, and operated 24 h daily – **L.P.**: Chief, Far East Network: G. L. Stanton, Lt. Col. Dir. Prgr.: J. F. Buey. Dir. Tec.: J. C. Olsen.

STATIONS (Systems: Gates, Raytheon, Collins, RCA):

M.w.	kc	kW		kc	kW		kc	kW
Tokyo	810	10	Itazuke	1550	2.5	Sasebo	1570	0.25
Nagoya	1490	10	Wakkanai	1550	0.1	Misawa	1580	0.25
Iwo Jima	1500	0.1	Chitose	1570	0.25	Iwakuni	1580	1

Short Waves: *6155 kc 48.74 m 10 kW (night) – 11750 kc 25.53 m 10 kW (24 h) – *15260 kc 19.63 m 10 kW (day).

* Power and direction vary to meet point to point commitments.

N.: Every h on the h – **Wrp.**: at 5 min past the h and 16.10, 21.15, 03.15.

ANN.: "This is the Far East Network... Far East Network, Tokyo (Nagoya, Itazuk etc...)" in the s.w. tr.'s are the frequencies mentioned. **V.** by letter – **F.PL.**: changes in freq's – **PUB.**: master-schedule (monthly).

JORDAN

L.T.: GMT+2 h – **Pr. L.**: Arabic, English, Spanish.

THE BROADCASTING SERVICE OF THE HASHEMITE KINGDOM OF JORDAN (Go.)

ADDR.: P.O. Box 909, Amman. **Cable**: Broadcasting. **Te.**: 23101 – **L.P.**: Dir. Gen. of National Guidance & information: Salah Abuzeid. Asst. Dir. Gen. Eng.: A. Bayat. Asst. Dir. Gen. Prgr.: S. Aweideh. Asst. Dir. Gen. Press & Information: W. Qusous. Asst. Dir. Gen. Adm.: Ghalib Sunn'a. Dir. Tec.: A. Bayat.

STATIONS: 677 kc Jerusalem. Others, Amman.

800 kc	375.0 m	100 kW		11810 kc	25.40 m	7.5 kW	
677 –	443.0 –	20	–	11870 –	25.27 –	100	–
7155 –	41.92 –	100	–	11970 –	25.06 –	100	–
9530 –	31.48 –	100	–	15170 –	19.78 –	100	–
9560 –	31.38 –	100	–	15345 –	19.55 –	100	–
9740 –	30.80 –	100	–	15440 –	19.43 –	100	–

HOME SERVICE

Amman: Arabic: 03.30–06.00 on 800/7155/11810 kc, 06.15–08.05 on 800/9530/11810 kc, 14.00–23.00 on 800/7155/11810 kc – **N.**: 05.00, 06.00, 08.00, 12.00, 13.00, 16.00, 17.00, 19.00, 21.00, 22.00.

Jerusalem: English: 11.00–12.00, 15.00–17.00 – **N.**: 11.30, 16.00 – **Arabic:** 12.00–15.00, 17.00–23.00 – **N.**: 12.00, 17.00, 19.00, 21.00, 22.00.

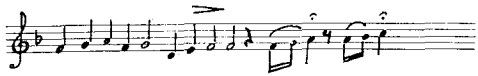
FOREIGN SERVICE

So. American Sce.: Arabic, Spanish: 23.00–01.00 on 11870, 15170, or 15345 kc – **N.**: Spanish 23.00, Arabic 00.30.

No. American Sce.: Arabic, English: 01.15–03.15 on 9530, 9560 or 9740 kc – **N.**: English 01.16, Arabic 02.45.

ANN.: Arabic: "Hunna Amman Ithaatul Mamlakate Al Urdoniete Al Hashemieh" – English: "This is Amman the Broadcasting Service of the Hashemite Kingdom of Jordan" – Spanish: "Aqui Radio Amman, Radio Difusora Del Reino Hashemita De Jordania".

INT.-SIG.:



V. by QSL-card and letter to Box 909 – **F.PL.**: 100 kW m.w. tr. Rammalah, 100 kW m.w. tr. Amman.

KOREA (Peoples Democratic Republic)

L.T.: GMT+9 h – **Pr.L.**: Korean.

ADDR.: Korean Central Broadcasting Committee, Pyongyang – **L.P.**: Dir. Internat. Affairs: J. K. Yung.

STATIONS: Medium Waves:

625 kc 480 m	685 kc 438 m	820 kc 365 m	1080 kc 278 m
660 – 454 –	785 – 382 –	1045 – 286 –	

Short Waves:

2850 kc 105.3 m – 6195 kc 48.43 m – 6250 kc 48.00 m

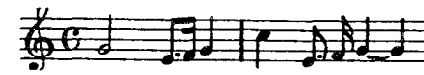
HOME SERVICE in Korean:

1st Prgr.: 19.50–17.00 on 785/2850/6195 kc – **2nd Prgr.**: 19.50–17.00 on 820/1080/6250 kc.

FOREIGN SERVICE on 820/1045/1080/6250 kc: **Chinese**: 08.00–08.30 – **English**: 00.30–01.00, 12.30–13.00 – **Japanese**: 00.00–00.30, 13.00–13.30 – **Korean** (for Koreans in Japan): 22.30–23.00, 10.30–11.00 (on 785/2850/6195 kc).

ANN.: E: "This is the Korean Central Broadcasting Station, Pyongyang" – V. by letter.

INT.-SIG.:



KOREA (Republic of)

L.T.: GMT+9 h – **Pr.L.**: Korean.

THE KOREAN BROADCASTING SYSTEM (Go.)

ADDR.: Bureau of Radio Management, Ministry of Public Information, Seoul. **Te.**: 3-2373 – **L.P.**: Bureau Dir.: J. Y. Kim. Chief Eng.: I. K. Lee. Overseas Sce. Dir. (HLCA): D. S. Kim. Home Sce. St. Dir. (HLKA): K. K. Yoon. Dir. TV (HLCK): K. O. Hwang.

STATIONS: (Systems: Gates, Westinghouse, R.C.A., Toshiba, Hallicrafters).

Call		kc	m	kW	Call		kc	m	kW
1)	HLK50	2510	119.50	10	2)	HLK55	11950	25.10	50
1)	HLK51	3910	76.73	5	2)	HLK41	15125	19.83	50
1)	HLK22	5975	50.21	10	2)	HLK42	15335	19.56	50
2)	HLK52	6035	49.71	10	2)	HLK34	15370	19.52	50
1)	HLK30	7190	41.72	1	2)	HLK46	17815	16.84	50
2)	HLK5	9640	31.12	50	2)	HLK60	21590	13.90	50
2)	HLK6	11925	25.17	50	1)	Seoul	2) Suwon.		

Medium Waves: ° Short Wave.

Name	Call	kc	kW	Name	Call	kc	kW
Chonju	HLKF	570	10	Chongju	HLKQ	920	1
Seoul	HLSA	600	10	Chulwon	HLCO	920	1
Kangnung	HLKR	600	10	Andong	HLCR	940	1
Mokpo	HLKN	650	1	Suwon	HLGA	°970	100
Masan	HLKD	650	1	Sokoho	HLCS	1030	0.3
Kwangju	KLKH	660	10	Namwon	HLKL	1030	1
Seoul	HLKA	°710	100	Hwachun	HLCG	1030	1
Taegu	HLKG	740	10	Samchok	HLCI	1120	1
Cheju	HLKS	800	1	Sogwipo	HLCF	1320	1
Taejon	HLKI	880	10	Yosu	HLCY	1340	0.25
Pusan	HLKB	890	50	Chunchoon	HLKM	1360	1
				Pohang	HLCP	1420	0.25

FM Link: Seoul, Suwon, Taejon, Pusan, Masan, Iri, Huksongsan, Chonju, Kumosan, Kowongyunsan: 44.3–106.8 Mc 0.6/2.5 kW.

HOME SERVICE:

1st Prgr. (Korean): 20.00–16.30 – **2nd Prgr.** (Korean): 20.00–16.30.

FOREIGN SERVICE:

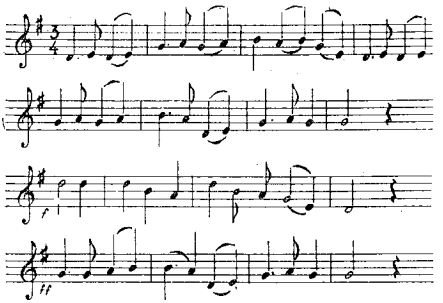
I=No. Korea, II=Japan, III=Gen. Overseas Sce., IV=F. East. E=English, F=French, K=Korean, J=Japanese, C=Chinese, R=Russian, D=Nov/March, M=March/May and Sept/Nov, S=May/Sept.

Times	D (kc)	M (kc)	S (kc)	Area	L.
21.00–21.30	5975	9640	9640	II	K
21.30–22.00	5975	9640	9640	II	J
22.00–22.30	5975	9640	9640	I	C
22.30–22.45	5975	9640	9640	I	R
02.00–02.30	9640	9640	9640	II	K
02.30–03.00	9640	9640	9640	II	J
03.30–04.00	9640	6035	9640	III	E
04.00–04.30	9640	6035	970/6035	I	C
05.30–06.00	11925	15125	15125	III	E
07.30–08.00	11925	15125	15125	III	E
09.00–10.00	7190	6035	9640	II	J
10.00–10.30	7190	6035	15125	I	C
10.30–11.00	7190	9640	9640	III	E
11.00–11.30	6035	9640	970/6035	I	C
12.00–12.30	6035	6035	970/6035	II	K
12.30–13.00	6035	6035	970/6035	II	J
13.00–13.30	6035	9640	9640	I	C
13.30–13.45	11925	9640	9640	I	R
14.00–14.30	11925	9640	15125	IV	E
14.30–15.00	11925	15125	15125	IV	F
15.00–15.30	11925	15125	15125	IV	C
16.45–17.30	11925	15125	970/6035	I	C

NEWS: English: 03.30, 05.30, 07.30, 10.30, 14.00. **French:** 14.30. **Spanish:** 03.55, 05.55, 07.55, 10.55. **Chinese:** 22.00, 03.30, 11.00, 13.00, 15.00. **Japanese:** 02.30, 09.00, 12.30.

ANN.: Home Sce.: Every 30 min. Korean: "Seoul Chungang Bangsongguk Imnida HLKA" (Seoul Key Station HLKA). After each Short Prgr.: KBS (Kei bi es) – **Foreign Sce.**: E.: "This is the Voice of Free Korea". F.: "Ici, la Voix de la Coreé libre". Sp.: "Aqui la Voz de Corea Libre".

INT.-SIG.: Foreign Sce.: Korean Folk Music.



V. by QSL-card. Rp. Re. to Int. St. KBS, Seoul – F.PL.: Two 250 kW transmitters (Brown, Boveri Co) at Namyang.

CHRISTIAN BROADCASTING SYSTEM (Non-Comm. Independent).
FI.: By donations from rel. groups and interested individuals.
ADDR.: 91 Chongno 2-Ka, Seoul. Tel: 3-2761.
L.P.: Dir.: E. O. De Camp. Mgr.: C. Bok Kim. Dir. Tec.: Y. H. Park.
STATIONS (Systems: R.C.A., Gates, Western Electronic):

HLKY[1])	840 kc 357 m 10 kW	HLCL[4])	1000 kc 300 m 0.25 kW
HLKT[2])	1000 – 300 – 0.25 –	HLCM[5])	1400 – 214 – 1 –
HLKP[3])	1000 – 300 – 0.25 –	HLKY-FM	104 Mc

[1]) Seoul. [2]) Taegu. [3]) Pusan. [4]) Kwangju. [5]) Iri.
HOME SCE.: Korean: 21.00–24.00, 03.00–06.00, 09.00–14.30 – N., Wrp.: 21.50, 22.50, 02.50, 03.50, 04.50, 08.50, 09.50, 11.50, 14.25. English: Sun 23.00–02.00(on HLKT, HLKP, HLCL, HLCM to 01.05) rel. prgr.
ANN.: "This is CBS, The Christian Broadcasting System HLKY, Seoul" – V. by letter – F.P.L: St. at Taejon – PUB.: Special Music Prgr. (monthly).

RADIO STATION HLKU (Comm.)
ADDR.: No. 3, 3-Ka, Choong-Ang Dong, Pusan.
STATION:
HOME SCE. in Korean: W 21.30–01.30, 04.00–06.00, 09.00–14.30. Sun 21.30–06.00, 09.00–14.30 – N.: 22.25, 04.25, 10.25, 11.20, 13.20.

RADIO STATION HLKX (Religious, Educational)
Operated by the Evangelical Alliance Mission, 2845 W. McLean Av., Chicago 47, Ill., USA – FI.: By contributions and free-will offerings.
ADDR.: Box 16, Inchon. Cable: Team Radio. Te.: 2910 – L.P.: Dir.: T. Watson jr. St. Mgr.: R. H. Pence. Dir. Tec.: Wm. S. Winchell.
STATION: 1060 kc 285 m 50 kW.
HOME SCE.: 20.00–23.30, 05.00–17.00 (Sat/Sun 19.45).
Chinese D exc. Sat 20.00–22.00, D 13.00–15.00 – English: 06.00 (Sun 03.00)–09.00 – Korean: 22.00–23.30, D exc. Sat 09.00–11.00 – Russian: 11.00–13.00, D exc. Sat 15.00–17.00 – N. in Korean: 17.00, 09.00, 10.00 – L.L.: (English): Mo-Fri 10.00–10.15.
ANN.: E: "This is the Voice of the Gospel – Team Radio HLKX, Inchon, Korea – a missionary project of the Evangelical Alliance Mission, Chicago, Ill" – INT.-SIG.: Chimes (A,F) – V. by QSL-card – PUB.: Prgr. schedule free on request. HLKX-echoes (quarterly) – F.PL.: transmission time 24 h per day in 1963, Sw.

SHORT WAVE MAGAZINE
(Established 1937)

One of the world's leading Amateur Radio publications covering transmission, reception, operating results, competitive working, design and construction. Regular features include "DX Commentary" and "VHF Bands" outstanding in their fields, issuing wide range of Achievement (DY) Certificates– FBA (Four Band Award), PRA (Polar Regions Award), WBC (Worked British Counties), WFE (Worked Far East), WNACA (Worked North American Call Areas) and VHFCC (VHF Century Club).
Monthly, 56 pages. Subscription 36s. post free. 35 Danish Kr., 5.50 American dollars, 22 Swiss francs, 25 French francs, 21 German Dm., 2500 Italian lire.
Specimen Copy: Five IRC's.

SHORT WAVE MAGAZINE LTD.,
55, Victoria Street, London S.W. 1, England.

AMERICAN FORCES KOREA NETWORK
ADDR.: Headquarters United States Element, American Forces Korea Network: APO 310, San Francisco, Calif., USA. Te.: Yongsan 2495.
L.P.: Commanding Officer: Lt. Col. Inf. D. A. Bartoni. Dir. of Prgr.: J. H. Mayall. Dir. Tec.: Capt. L. W. Parker.

STATIONS: 24 h	kc	kW		kc	kW
Seoul[1])	560	5	Taegu[6])	1360	1
Kwangiu*	1150	0.25	Unchon-Ni[7])	1400	1
Chungchon*	1160	0.25	Wonju*	1440	0.25
Tongduchon[2])	1200	1	Kunsan[8])	1440	0.25
Pusan[5])	1250	1	Taejon	1485	0.25
Osan[3])	1360	1	Munsan-Ni[4])	1510	1

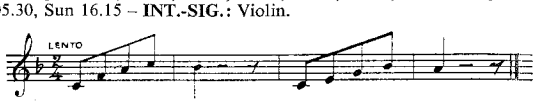
[1]) "Vagabond". [2]) "Bayonet". [3]) "Comet". [4]) "Cavalier". [5]) "Homesteader". [6]) "Kilroy". [7]) "Gypsy". [8]) "Mercury". *) rebroadcast st. relaying 560 kc.
N.: Every h on the h. "Korea Notebook" (local N) Sat 02.05.
ANN.: (System cue): "This is the American Forces Korea Network". Local st. identification: "This is radio "Vagabond" in Seoul" etc.
V. by QSL-card and letter re. to Hqs. AFKN, APO 301, San Francisco, Calif., USA. Rp. – F PL : Microwave for TV and AM.

KUWAIT

L.T.: GMT+3 h – Pr. L.: Arabic.
KUWAIT BROADCASTING & TELEVISION SERVICE (Go.)
ADDR.: P.O. Box 397, Kuwait. Cable: Kuwait Broadcasting. Te.: 5011 – L.P.: Ministry of Guidance and Inf.: H. E. Shaikh Sabah Al Ahmad Al Jaber Al Sabah. Consultant: M. T. Ghossain. Dir. Gen.: M. Abu-Gharbieh.
STATIONS:

1130 kc	265.0 m	1/10/100 kW		11940 kc	25.12 m	1/10/50 kW	
1345 –	223.2 –	1/10/100 –		15150 –	19.80 –	1/10/50 –	
4967.5 –	60.25 –	1/10/50 –		17750 –	16.90 –	1/10/50 –	
6055 –	49.55 –	1/10/50/100 kW		21525 –	13.94 –	1/10/50 –	

HOME SCE. in Arabic:
N. Wrp.: 03.00, 04.00, 05.00, 10.00, 17.00, 19.00, 21.00. Mbg.: Fri 05.30, Sun 16.15 – INT.-SIG.: Violin.



ANN.: "Huna Dar Al-Iza'a Al Kuwaitieh" – V. by QSL-card – F.PL.: One 100 kW sw.-tr. (April 63), one 100 kW mw.-tr. (1964), four 100 kW sw.-tr.'s and 2 500 kW mw.-tr.'s (1965).

LAOS

L.T.: GMT+7 h – Pr. L.: Laotian, French.
RADIODIFFUSION NATIONALE LAO (Go.)
ADDR.: Radiodiffusion Nationale Lao, Vientiane. Cable: Radio Lao. Te.: 76 – L.P.: Dir. Gen.: T. Souvannavong. Dir. Tec.: Viengsavanh. Dir. Adm.: B. Hansacda. Dir. Prgr.: M. Chanthalangsy.
STATIONS: 1340 kc 223.8 m 5 kW – 6150 kc 48.78 m 1/10 kW – 7145 kc 41.99 m 1/10 kW.
HOME SERVICE: 23.30–01.30, 05.00–07.00, 11.00–16.00.
N.: Laotian: 01.00 (dictation), 05.15, 12.00. Wrp.: 05.00. French: 05.30, 12.30. English: 13.30. Vietnamese: 13.40. Chinese: 13.50. Meo (local dialect for No. Laos): 12.50 – L.L.: English 05.45.
ANN.: F.: "Ici Vientiane, Radiodiffusion Nationale Lao – INT.-SIG.: Music one Khène, instrument of Bamboo – V. by letter Rp. – F.PL.: Nat. network with six regional centres. New prgr. times from Jan. 63.

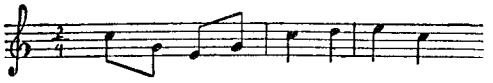
LEBANON

L.T.: GMT+2 h – Pr. L.: Arabic, French, English.
LEBANESE BROADCASTING STATION (Go.)
ADDR.: Radio Lebanon, Ministry of Information, Orientation and Tourism, Beirut, Lebanon. Cable: Radioliban. Te.: 25188 – L.P.: Dir. Gen.: B. Dib. Dir. of Broadc.: H. Al Hassan. Dir. Tec.: J. Rohayyem. Dir. Prgr.: N. Khoury.
STATIONS:

836 kc	359 m	4 kW		11715 –	25.63 –	100 –	
989 –	303.3 –	100 –		15235 –	19.69 –	100 –	
8036 –	37.34 –	2 –		15295 –	19.62 –	100 –	

HOME SERVICE:
Prgr. I (Arabic): On 989, 8036 kc: 04.30–07.30, 09.25–22.00. On 836 kc: 20.00–22.00 – N.: 05.00, 07.00, 11.00, 13.30, 17.00, 18.00, 20.00, 21.45.
Prgr. II: 836 kc: French: 05.30–07.00, 11.30–12.30, 17.30–20.00. N.: 05.30, 11.30, 12.00, 17.30, 18.15 – English: 15.00–16.00. N.: 15.00 – Arabic, English, French: 07.00–09.30, 12.30–15.00, 16.00–17.30.

FOREIGN SERVICE:
18.30–19.45 on 11715 kc to Africa in **English, Arabic, French.**
20.00–20.50 on 15235 kc to So. America in **Portuguese, Arabic, Spanish.**
21.00–22.00 on 15295 kc to No. America in **English, Arabic, Spanish.**
English. 21.00–21.15 – **Arabic** 21.15–21.45 – **Spanish** 21.45–22.00.
ANN.: Arabic: "Houna Beyrouth, Dar al'Iza'a al Loubaniat". F.: "Ici Beyrouth, Station de Radiodiffusion Libanaise". E.: "This is the English programme of the Lebanese Broadcasting Station in Beirut". Sp.: "Aqui Beyrout, el Libano transmitiendo para America del Sur (or America del Norte)" P.: "Aqui Beirut, o Libano falando ao Brasil" – V. by letter. Rp.
INT.-SIG.:



MACAU (Portuguese China)

L.T.: GMT+8 h – **Pr.L.:** Portuguese, Chinese, English.
EMISSORA VILA VERDE (Priv.-Comm.)
FI.: By adv. – **AD.:** Only on 1200 kc spots or 15–30 min. prgr.s – **ADDR.:** Radio Vila Verde Macau. **Cable:** Vila. **Te.:** 3355 – **L.P.:** Dir.: P. J. Lobo. Mgr.: P. H. Lobo. Dir. Tec.: J. J. Alvares.
STATIONS (System: RCA):
1003 kc 298 m 1 kW 735 kc 408 m 10 kW
HOME SCE.: Chinese: 23.00–16.00 on 735 kc – **N.:** 12.15 – **Wrp.:** 03.30, 07.30, 10.30 – **Portuguese:** 12.00–16.00 on 1003 kc – **Wrp.:** 14.30.
ANN.: P.: "Aqui Emissora Vila Verde Macau" – **INT.-SIG.:** chimes. V. by letter or QSL-card.

MALAYA (Federation of)

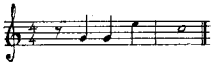
L.T.: GMT+7½ h – **Pr.L.:** Malay, English.
RADIO MALAYA (Go.)
FI.: by state: A. Comm. service was inaugurated on Jan 1st 1962.
ADDR.: Dept. of Broadcasting, P.O. Box 1047, Kuala Lumpur. **Cable:** Broadcasts. **Te.:** 82241.
L.P.: Dir.: Dol Ramli. Dept. Dir.: M Za'ba. Dir. Tec.: K. Singh. Publicity Officer: Miss Lily Goh. Comm. Mgr.: C. J. Sadler.
STATIONS: (Systems: Gates, R.C.A., Hallicrafters, St. & C.)
Medium Waves:

	kc	kW	L		kc	kW	L
Johore Baru	570	5	M	Johore Bahru	940	5	E
Kuala Lumpur	590*	20	C/I	K. Trengganu	960*	0.3	M
Penang	660*	10	M	Malacca	1010*	10	M
Kota Bahru	700	10	E	Penang	1040*	10	C/I
Ipoh	740*	10	I/M	Kuala Lumpur	1070*	20	M
Kuantan	810	0.3	M	Malacca	1160*	10	E
Kota Bahru	840*	10	M	Ipoh	1200	10	C/I
Penang	860*	10	E	Johore Bahru	1220	5	C/I
Kuala Lumpur	880*	20	E	Malacca	1280*	10	C/I
Ipoh	910*	10	I/E				

Short Waves: * Kuala Lumpur (Kajang). ** Penang.

kc	m	kW	L	kc	m	kW	L
4985**	60.18	10	M	7200**	41.67	10	E
6025*	49.79	5	C	7280**	41.21	10	M
6135*	48.90	10	M/I				

Home Sce. in Malay, English, Chinese, Tamil: 22.30–15.30.
Malay Sce. on 4985/7280 kc: Mo/Wed 22.30–03.00, 03.30–06.30, 07.30–15.30. Tues/Thurs 22.30–01.30, 02.30–06.30, 08.30–15.30. Fri/Sat/Sun 22.30–15.30 – **N.:** 22.32, 23.30, 00.30, 01.26, 06.00, 09.30, 12.30, 14.30 **Comm. prgr's:** 22.30, 04.00 (Fri 06.15), 09.30 (Mo-Thurs), 12.00, 14.00.
English Sce. on 7200 kc: Mo–Thurs 22.30–02.45, 05.45–06.30, 08.40–15.30. Fri 22.30–01.30, 05.45–06.30, 09.30–15.30. Sat 22.30–01.30, 05.45–15.30. Sun 22.30–15.30 – **N.:** 22.32, 24.00, 01.26, 06.00, 09.30, 11.30, 14.00 – **Comm. prgr's:** 22.30, 05.45 (Sun 05.30), 09.30 (Sat/Sun 07.30), 13.30, 14.30.
Malay/Indian Sce. on 6135 kc: Mo/Wed 22.00–03.00, 03.30–15.30. Tues/Thurs 22.00–01.30, 02.30–07.30, 08.30–15.30. Fri/Sat/Sun 22.00–15.30 – **N. in Tamil:** 22.45, 06.00, 11.30 – **Comm. prgr's:** 22.30, 01.30 (Sun), 05.45, 10.30.
Chinese Sce. on 6025 kc: Mo/Wed/Thurs 23.00–02.45, 04.30–05.45, 07.30–08.30, 09.30–15.30. Tues/Fri 23.00–01.30, 04.30–05.45, 09.30–15.30. Sat 23.00–01.30, 04.30–15.30. Sun 23.00–15.30 – **Comm. prgr's:** 23.00, 04.30 (Sun 03.30), 09.30 (Sat/Sun 08.00), 14.00.
ANN.: E: "This is R. Malaya". Malay: "Ini-lah Radio Malaya"
INT.-SIG.:

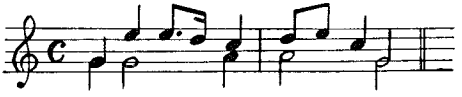


V. by letter. Rp. – **F.PL.:** Consideration has been given to the inauguration of an external service to neighbouring countries in S.E. Asia 1963. New st's at Ipoh, K. Bahru, K. Prengganu, Kuantan, J. Bahru – **PUB.:** prgr.-schedule (weekly) in 4 languages.

REDIFFUSION (MALAYA) LTD. A subsidiary of Rediffusion Ltd. London (Comm.). – **FI.:** By subscription charges and adv. – **L.P.:** Man. Dir.: G. H. Oldridge – **Kuala Lumpur:** P.O. Box 570, 17 Pahang Rd. **Cable:** Rediffuse. **Te.:** 81941. St. Mgr.: P. J. M. Patten – Two simultaneous wired broadc. networks .Originating own prgrs. and rel. "Radio Malaya", B.B.C., etc. – **Penang:** P.O. Box 559, Rediffusion Hse., Khaw Sim Bee Rd. **Cable:** Rediffuse. **Te.:** 61761. St. Mgr.: L. H. Adams. Two simultaneous broadc. networks. Originating own prgrs. and rel. "Radio Malaya", B.B.C., etc.

MONGOLIA (Peoples Rep.)

L.T.: GMT+8 h – **Pr.L.:** Mongolian.
ULAN BATOR RADIO (Go.)
FI.: By Go. limited adv. allowed – **ADDR.:** Radio Ulan Bator, Ulan Bator, The Mongolian People's Republic. **Cable:** Mongolian Radio.
STATIONS:
227 kc 1322 m 150 kW – 6135 kc 48.90 m 25 kW
5067 – 59.21 – 25 7260 – 41.32 – 25 –
5960 – 50.34 – 50 – – 10885 – 27.60 – 25 –
HOME SCE.: 1st Prgr.: 22.55–15.05 on 227/5067/5960/10885 kc – **Russian:** Tues, Fri 05.00 – **Chinese:** Tues 09.20, Thurs 07.30 – **Kazakh:** Tues 10.40, Thurs 05.10, Sat 10.30 – **Relay R. Moscow:** 09.30–10.00, 13.15–14.00 – Other times in Mongolian.
2nd Prgr.: 09.00–14.05 on 6135/7260 kc (Mongolian only).
ANN.: "Ankhararai Ulanbatras jarsj baina" (Attention. This is Ulan-Bator Calling). **INT.-SIG.:** V. by letter.



NEPAL

L.T.: GMT+5½ h – **Pr.L.:** Nepali, Newari, Hindi, English.
RADIO NEPAL (Go.)
ADDR.: Kathmandu (Via India).
STATIONS: 1500 kc 200 m 0.25 kW – 7105 kc 42.22 m 5 kW
HOME SCE.: 02.20–04.20, 07.20–09.20 (7105 kc only), 12.20–14.20.
External Sce: Sun. 04.35–05.20 on 7105 kc. **Testtransmissions:** On 4800 kc 62.50 m 5 kW. Transm. hrs. change frequently but most used times are near 02.00 and 14.00.
ANN.: Nepali: "Yo Radio Nepal Ho".

PAKISTAN

L.T.: We. Pakistan GMT+5 h. Ea. Pakistan GMT+6 h – **Pr. L.:** Urdu, Bengali.
RADIO PAKISTAN (Go.)
ADDR.: 71, Garden Rd, Karachi-3. **Cable:** Digbrocast. **Te.:** 70263.
L.P.: Dir. Gen.: Zahur Azar, CSP. Dept. Dir. Gen (I): A. Nasri. Dept. Dir. Gen (II): S. A. Hafeez. Dir. Prgr. Planning: A. Butt. Dir. of Liaison: A. M. Chagla. Dir. of Adm.: K. A. Mukhtar. Adm. Officer: M. H. Shah.
ADDR.: 23-Victoria Rd., Karachi-4. **Cable:** Cebrocast. **Te.:** 54272.
L.P.: Chief Eng.: R. Ahmed. Dep. Chief Eng. (I): B. Ahmed. Dep. Chief Eng. (II): S. A. Aziz.

STATIONS

Medium Waves:	kc	m	kW		kc	m	kW
Peshawar	580	517.2		Rangpur	1050	285.7	
Quetta	750	400	1	Lahore	1090	275.2	5
Peshawar	790	379.7	10	Sylhet	1140	263	
Karachi I	830	361.4	10	Rawalpindi	1150	260.8	10
Chittagong	870	344.8	1	Dacca I	1170	256.4	5
Hyderabad	1010	297	10	Rajshahi	1080	277.7	1

In addition to the freq's listed above other medium wave freq's registered for unscheduled experimental transmissions.
Short Waves: Karachi: II/III=50 kW, IV/V=10 kW.

kc	m	kc	m	kc	m	kc	m
2420	124.00	4935	60.79	7096	42.27	7280	41.21
3395	88.37	5980	50.17	7130	42.08	7290	41.15
3915	76.63	5990	50.08	7150	41.96	7295	41.12
3945	76.05	6035	49.71	7160	41.90	9484	31.63
3955	75.85	6070	49.42	7200	41.67	9545	31.43
4807	62.41	6075	49.38	7225	41.52	9560	31.38
4895	61.29	6235	48.12	7263	41.30	9595	31.27
4910	61.10	7010	42.80	7270	41.26	9614	31.20

kc	m	kc	m	kc	m	kc	m
9630	31.15	11740	25.53	15155	19.80	17750	16.90
9640	31.12	11770	25.49	15160	19.79	17755	16.90
9645	31.10	11795	25.43	15192	19.75	17760	16.89
9695	30.94	11800	25.42	15205	19.73	17770	16.88
9705	30.91	11810	25.40	15255	19.67	17835	16.82
9737	30.81	11845	25.33	15270	19.65	21570	13.91
9740	30.80	11885	25.24	15275	19.64	21580	13.90
9750	30.77	11910	25.19	15335	19.56	21590	13.90
9755	30.76	11914	25.19	15360	19.53	21630	13.87
11650	25.75	11920	25.17	17710	16.94	21690	13.83
11672	25.71	15135	19.85	17715	16.93		
11725	25.58	15145	19.81	17745	16.91		
Dacca II=7.5 kW, Dacca III=10 kW.							
2350	127.66	6075	49.38	9614	31.20	15550	19.29
3325	90.23	6090	49.26	9615	31.20	17640	17.00
3950	75.95	6112	49.08	9645	31.10	17710	16.94
3955	75.86	6120	49.02	11725	25.59	17720	16.93
3965	75.66	7140	42.01	11730	25.58	17730	16.92
4790	62.62	7150	41.90	11890	25.23	17835	16.82
4807	62.41	7225	41.52	15160	19.79	17890	16.77
5035	59.58	7263	41.30	15265	19.66	21465	13.98
5970	50.25	7278	41.22	15270	19.65	21630	13.87
5980	50.17	7284	41.19	15285	19.63	21685	13.83
6070	49.42	9605	31.23	15335	19.56		
Lahore II 1 kW.							
2400	125.00	4807	62.41	6138	48.88	9645	31.10
3335	89.96	6025	49.80	7225	41.52	11800	25.42
3915	76.63	6030	49.75	7270	41.26	11840	25.34
4785	62.70	6075	49.38	7284	41.19		
Rawalpindi II=10 kW				**Peshawar II=10 kW**			
2460	121.95	4895	61.28	2320	129.31	7130	42.07
3259	92.53	9730	30.83	3241	92.56	9600	31.25
7110	42.19			3965	75.67		

NOTE: All Shortwave freq.s are subject to seasonal changes.

MEDIUM WAVE PROGRAMMES:

Karachi (Urdu, English, Bengali): 01.45–03.30, 06.30–09.30 (Sun 01.45–09.30), 11.30(Fri, Sat, Sun 12.00)–17.30.

Lahore (Urdu, English, Punjabi): 02.00–03.30(Sun 05.00), 06.30–08.30, 12.00–17.30.

Rawalpindi (Urdu, English, Pothohari): 02.00–03.30(Sun 05.00), 07.00–08.30, 11.30–17.00 – **Peshawar** (Urdu, English, Pushto): 02.00–03.30(Sun 04.00), 07.00(Fri, Sun 06.30)–08.30, 12.00–17.30 – **Hyderabad** (Urdu, English, Sindhi): 02.00–03.30(Sun 05.00), 07.00–08.30, 12.00–17.00 – **Quetta** (Urdu, English, Pushto, Baluchi): 12.00(Sat, Sun 11.30)–17.00 – **Dacca** (Urdu, English, Bengali): 01.00–03.00(Sun 03.30), 07.00(Sun 06.45)–09.00, 11.00–16.30 – **Rajshahi, Chittagong, Sylhet** (Urdu, English, Bengali): 11.00–16.30.

Abbreviations: K=Karachi, L=Lahore, R=Rawalpindi, P=Peshawar, Q=Quetta, D=Dacca, H=Hyderabad, RA=Rajshahi, C=Chittagong, S=Sylhet.

Nat. Music is broadcast daily from each st of R. Pakistan on the chunks other those reserved for fixed point items, spoken word items and N.

NEWS: National

English: 02.30–02.45 K, L, R, P, H, D; 08.00–08.10 K, L, R, P, H, D; 12.00–12.10 K, L, R, H, D, RA, C, S; 14.45–15.00 K, L, R, P, H, Q, D, RA, C, S – **Local:** 13.20–13.25 K; 12.25–12.30 L, R; 12.35–12.40 P. **Urdu:** 02.45–03.00 K, L, R, P, H, D; 08.10–08.20 K, L, R, P, H; 12.10–12.20 K, L, R, P, H, Q; 15.00–15.15 K, L, R, P, H, Q, D, RA, C, S – **Local:** 13.15–13.20 K; 12.20–12.25 L, R; 12.30–12.35 P; 12.35–12.40 Q; 12.55–13.00 D.

Bengali: 01.45–02.00 K, D; 08.10–08.20 K, D; 14.00–14.15 K, D, RA, C, S – **Local:** 12.50–12.55 D, RA, C, S.

Pushto: 03.00–03.10 K (for We. Pakistan), P; 08.20–08.30 K (for We. Pakistan), P; 12.20–12.30 K (for We. Pakistan), P, Q – **Local:** 12.30–12.35 Q; 13.45–13.55 P.

Sindhi: 12.20–12.30 H – **Balochi:** 13.20–13.30 Q – **Local:** 13.30–13.35 Q – **Kashmiri:** 12.35–12.45 K.

SHORT WAVE PROGRAMMES

Karachi to W. Pakistan: 01.45–03.30 on 4930/6070 kc, 07.00–09.30 on 9645/11910 kc, 12.00–12.30 on 7130/9515 kc, 12.35–13.20 on 7010/9750 kc, 13.20–13.30 on 6235/7275 kc, 14.45–15.15 on 6235/7275 kc.

01.45–02.00 N. in Bengali	12.00–12.10 **N. in English**
02.00–02.30 Rel. prgr.	12.10–12.20 N. in Urdu
02.30–02.45 **N. in English**	12.20–12.30 N. in Pushto
02.45–03.00 N. in Urdu	12.35–12.45 N. in Kashmiri
03.00–03.10 N. in Pushto	12.45–13.20 Kashmiri prgr.
03.10–03.30 Karachi Prgr.	13.20–13.30 N. in Balochi
07.00–08.10 Comm. Sce.	14.15–14.45 Nat. Hook-up & K. Prgr.
08.00–08.10 **N. in English**	
08.10–08.20 N. in Urdu	14.45–15.00 **N. in English**
08.20–08.30 N. in Pushto	15.00–15.15 N. in Urdu
08.30–09.30 K. Prgr.	

Karachi to Ea. Pakistan: 01.45–03.00 on 9645/11885 kc, 07.00–08.20, 12.00–12.20 on 17750/21590 kc, 14.00–15.15 on 11672/15405 kc.

01.45–02.00 N. in Bengali	12.00–12.10 **N. in English**
02.00–02.30 Rel. Prgr.	12.10–12.20 N. in Urdu
02.30–02.45 **N. in English**	14.00–14.15 N. in Bengali
02.45–03.00 N. in Urdu	14.15–14.45 Nat. Hook-up & K. Prgr.
07.00–08.00 Comm. Sce.	
08.00–08.10 **N. in English**	14.45–15.00 **N. in English**
08.10–08.20 N. in Bengali	15.00–15.15 N. in Urdu

Zonal Services:

Lahore	kc	Dacca II	kc	Dacca III to We. Pakistan	kc
01.30–03.00	4807	01.00–03.00	5980	01.00–03.00	11730
06.30–08.30	7225	06.00–07.30	9615	06.00–07.30	21685
12.00–13.30	7225	11.00–13.30	6015	11.00–13.30	17640
13.45–17.30	4807	13.15–16.30	3395	13.45–16.30	11650

Rawalpindi: 07.00–08.30, 10.45–11.45 on 7110 kc.

Peshawar: 01.30–03.00 on 3965 kc, 07.00–08.30 on 7130 kc, 12.00–13.30 on 5990 kc, 13.45–17.30 on 3965 kc.

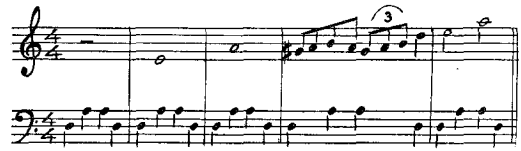
ANN.: "This is Radio Pakistan, Karachi, Lahore" etc.

EXTERNAL SERVICES

Time	Service	kc	Languages
00.30–01.15	So. Ea. As.	7290/9645	**English**
03.45–04.45	So. Ea. Af.	11885/17745	Urdu/Gujrati
08.30–09.15	Indonesia	11885/17750	**English**
09.30–09.45	Gen. Overseas Sce.*	17750/21590	**English**
09.45–10.30	Burmese	17750/21590	Burmese
10.45–11.45	So. As.	9645/11920	Urdu
13.35–13.50	Gen. Overseas Sce.**	17890/21592	**English**
16.00–17.15	Afghan-Persian	6235/7130	Afghan/Persian
16.00–16.45	Iran	5980/7275	Persian
17.30–18.30	Arabic	9740/11672	Arabic
18.45–19.30	Turkish	9740/11672	**English**
19.45–20.30	U. K.	9740/11672	**English**

* to F. East. ** to M. East.

ANN.: E.: "This is R. Pakistan calling listeners in (name of target country)" – **INT.-SIG.:** A signal tune is played during interval signals. **V. by QSL-card – PUB.:** "Pakistan Calling" in English, Urdu, Bengali (fortnightly). Monthly Pub. in Arabic, Persian, Burmese.



PHILIPPINES

L.T.: GMT+8 h – **Pr.L.:** English, Tagalog, Ilocano, Visayan.

STATIONS: Educ. and Go.: 2), 5), 29). **Rel.:** 3), 7), 13) – Other st.'s priv. comm. 1) is Go. owned, but broadc. comm. prgr.'s.

Location: Manila exc. where indicated.

Call	kc	m	kW	Name & h of tr.
1) DUB4	3286	91.29	2	Philippine Broadc. Sce. 21.00–15.00
2) DZCA	3305	90.77	1	Nat. Civil Defense Adm.: 08.00–11.00
3) DZB2	3345	89.68	2	Far East Broadc. Co.: 21.00–15.00
4) DXB3	3945	76.05	0.5	Notre Dame Broadc. Corp., Cotabato City: 22.00–14.00.
5) DZB6	4945	60.67	0.5	Nat. Teachers College: W 09.30–11.00. Sun 01.00–03.00
2) DZCA	5970	50.25	1	Nat. Civil Defense Adm.: 08.00–11.00
6) DZH4	6000	50.00	1	Voice of the Philippines: 21.00–15.00
3) DZH6	6030	49.75	2	Far East Broadc. Co.: 21.00–17.00
7) DYH4	6055	49.55	0.35	Silliman University, Dumaguete City: W 21.00–06.00, 09.00–14.00. Sun 21.00–14.00
6) DZI7	6080	49.34	0.25	Voice of Manila: 21.00–16.00
6) DYH3	6100	49.18	0.25	R. Cebu, Cebu City: 21.00–15.00
6) DYH2	6140	48.86	0.25	Voice of Cebu, Cebu City: 20.00–18.00
1) DUH2	6170	48.62	0.25	Philipp. Broadc. Sce.: 21.00–15.15
8) DUH9	7160	41.90	1	Univ. of the Philippines, Quezon City: 09.00–13.00
3) DZI9	7240	41.44	50/2	Far East Broadc. Co.: 22.00–00.30, 09.00–13.30, 13.45–17.30
9) DXH2	7280	41.21	1	Mindanao Broadc. System, Davao City: 21.00–16.00
1) DUH3	9570	31.35	0.25	Philipp. Broadc. Sce.: 21.00–15.15
1) DUH4	9615	31.20	0.25	Philipp. Broadc. Sce.: 21.00–15.15
6) DZH2	9640	31.12	1	Voice of the Philippines: 21.00–15.00

3) DZH7	9730	30.83	10/2	Far East Broadc. Co.: 22.00–03.00, 04.00–17.30	
6) DZH3	9750	30.77	1	R. Philippines: 21.00–15.00	
1) DUH5	11840	25.34	0.25	Philipp. Broadc. Sce.: 21.00–15.15	
3) DZH8	11855	25.31	50/4	Far East Broadc. Co.: 04.00–17.30	
3) DZF2	11920	25.17	4/50	Far East Broadc. Co.: 22.00–03.00, 10.30–17.30	
3) DZH9	15300	19.60	2	Far East Broadc. Co.: 22.00–03.00, 04.00–17.30	
3) DZF3	15385	19.50	50	Far East Broadc. Co.: 23.30–01.30	
3) DZI6	17805	16.85	2/10	Far East Broadc. Co.: 22.00–03.00, 04.00–04.45, 05.15–13.30	

Medium Waves: ° Short Waves, ¹ also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
10) DZAA	540	0.5	17) DYQL	870	1	16) DYRM	1200	1
2) DZCA	°550	1	4) DXMS	°880	1	16) DYOG	1210	1
11) DYCB	570	10	12) DZXX	890	1	16) DZAL	1230	1
12) DZBB	580	10	9) DXUM	900	1	30) DZLT	1240	5
6c) DYRC	°600	1	10) DZAD	900	0.5	6f) DZHF	1250	1
13) DZAQ	620	50	16) DYHF	910	1	31) DYVM	1260	0.5
14) DXBC	630	1	26) DXMT	930	10	21) DZBW	1270	0.5
15) DXAW	640	10	7) DYCR	°940¹5		16) DYRI	1280	5
6d) DZRH	°650	10	26) DZTD	940	10	27) DZEB	1290	1
16) DYBC	660	1	17) DZXL	960	50	27) DZRL	1300	1
17) DYPL	670	1	6f) DYMB	970	1	16) DYML	1310	1
3) DZAS	°680	10	24) DZRC	970	1	16) DYRX	1320	1
18) DXSS	680	1	27) DXJC	980	1	27) DXJJ	1330	1
1) DZFM	°710¹0		11) DZYY	980	1	13) DZMM	1340	1
14) DXIC	720	1	13) DZBC	°1000	10	1) DXRP	1350¹1	
19) DZGB	720	1	15) DXJW	1010	1	32) DYRL	1360	1
13) DZRD	730	1	12) DYSS	1020	1	27) DZBS	1370	1
4) DXND	730	0.5	3) DZFE	°1030	1	26) DZTM	1380	10
20) DYBR	730	1	13) DZRI	1040	6	33) DXRM	1390	1
9) DXMC	°740	5	13) DZRB	1060	10	17) DYXL	1400	5
21) DZQR	740	0.5	16) DYWX	1070	1	1) DYMR	1410	1
6b) DZBM	°760	1	26) DZWS	1070	10	8) DZUP	°1410¹1	
22) DZCP	770	1	28) DXVA	1080	1	5) DZTC	1430	1
14) DXCC	780	1	9) DXCM	1090	1	12) DYOO	1440	1
23) DZAB	780	1	26) DZMT	1100	10	14) DXVM	1450	0.5
6e) DYVL	790	0.5	27) DZVS	1110	0.5	34) DZBU	1460	10
6a) DZPI	°800	10	29) DYMM	1120	0.5	9) DXKM	1470	1
9) DXMM	810	1	16) DYOR	1130	1	27) DXOC	1490	1
6c) DYBU	°820	1	17) DZQL	1160	1	1) DZEQ	1510	1
11) DZMY	830	5	16) DYLL	1170	1	11) DZEL	1540	0.25
7) DYSR	°840	1	15) DXWW	1180	1	35) DZFU	1580	0.5
24) DZGE	850	5	1) DZRM	°1190¹5		31) DYDR	1590	1
25) DZDE	855	5						

Short Waves:

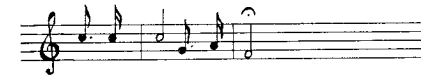
1) 5th Floor, GSIS Bldg., Manila. **Cable:** Philcast. **Te.:** 3-24-15. **FI.:** By state and adv. – **AD.:** 16.6% of broadc. time – **L.P.:** Gen. Mgr.: F. Trinidad. **Dir. Tec.:** J. Dy (tr.'s), L. Quintos (studios).
HOME SERVICE on all m.w.-st's and 3 FM-st's: 21.00–15.15. **N. in English:** 22.45, 02.00*, 04.45, 06.45, 10.30, 14.00*, 14.10 (UN) – **N. in Tagalog:** 21.30, 05.00, 14.20.
*=Asian News (relayed from R. Japan). **Relay st.'s:** DXRP Davao City. DZEQ Baguio, DYMR Cebu City – **ANN.:** "This is the PBS, Philipp. Broadc. Sce." – **V.** by QSL-card. Rp. (Transmitters: RCA, NEC, Gates).

2) Independence Grandstand, Luneta, Manila – **L.P.:** Adm.: A. G. Eugenio – **ANN.:** "You are listening to R. Station DZCA owned and operated by the National Civil Defense Administration of the Philippines" – **V.** by letter. **Re.** in E.

3) **FI.: FEBC** is a non-profit, non-commercial missionary organization being sustained by free-will gifts and offerings from interested friends – **ADDR.:** Box 2041, Manila. **Cable: FEBCOM. Te.:** 2-1057 – **L.P.:** Pres.: R. H. Bowman. **Dir. Tec.:** N. Blake.

PHILIPPINE SCE.: On 680/3345/6030 kc: 20.55–15.00(Sun 15.30). 21.00–23.00 Philippine dialects, 23.00–01.45 **English,** 01.45–03.00 Tagalog, 03.00–04.30 **English,** 04.30–05.30 Chinese, 05.30–07.30 **English,** 07.30–08.00 Tagalog, 08.00–11.30 Philippine dialects, 11.30–15.00 **English,**
Manila's Fine Music Station on 1030 kc carries classical music and is joined by the following s.w.-st's: 22.00–23.00 15300 kc, 23.00–23.30 7240, 9730, 11855, 11920, 15300, 17805 kc, 03.00–04.00 (Sun only) on 9730, 11920, 15300, 17805 kc, 10.00–10.30 on 7240, 11855 kc, 10.30–12.30 on 7240, 11855, 15300, 17805 kc.
N.: 23.30, 01.30, 04.00, 05.32, 06.30, 09.30, 15.00.

OVERSEAS SERVICE:
22.00–23.00 Mandarin 7240, 9730, 11920 – 23.00–23.30 Cantonese 7240, 9730, 11920 – 22.00 23.00 **English** 15300 – 23.00–23.30 **English** 15300, 17805 – 23.30–23.45 **English** 6030, 7240, 9730, 11855, 11920, 15300, 17805 – 23.45–00.30 **English** 7240, 11855, 17805 – 23.45–01.00 Indonesian, Thai, Lao 9730, 11920, 15300 – 00.30–01.30 Sinhalese, Burmese/Karen, Nepali/Tibetan 15385 – 01,00–01.30 **English** 9730, 11920, 15300, 17805 – 01.30–02.30 **English** 17805 – 01.30–02.30 Mandarin 9730, 11920, 15300 – 02.30–03.00 **English** 9730, 11920, 15300, 17805 – 03.00–04.00 (Sun only) **English** 9730, 11920, 15300, 17805 – 04.00–04.30 Vietnamese 9730, 11855, 15300 – 04.30–04.45 **French** 9730, 11855, 15300, 17805 – 04.45–06.30 Cambodian, Cantonese, Amoy 9730, 11855, 15300 – 05.30–06.30 **English** 15385, 17805, (21515) – 06.30–09.00 **English** 9730, 11855, 15300, 17805 – 09.00–09.30 **English** 6030, 11855, 17805 – 09.00–10.00 Amoy 7240, 9730, 15300 – 09.45–10.00 **English** 11855, 17805 – 10.00–10.30 Indonesian 9730, 15300, 17805, 10.00–10.30 **English** 11855, 17805 – 10.30–12.00 **English** 7240, 11855, 15300, 17805 – 10.30–12.00 Japanese 9730, 11920 – 12.00–12.30 Thai 11920 – 12.00–12.30 Vietnamese 9730, 11855 – 12.30–13.45 Lao, French Cambodian 9730, 11920 – 12.00–12.30 **English** 7240, 15300, 17805 – 12.30–13.00 **English** 7240, 11855, 15300, 17805 – 13.00–13.30 **English** 7240, 11855, 15300 – 13.45–14.00 Mandarin 7240, 9730, 11920 – 14.00–15.15 Mandarin, Cantonese 7240, 9730, 11920, 15300 – 15.00–15.15 **English** 6030, 11855 – 15.15–16.00 Mandarin 6030, 7240, 9730, 11920, 15300 – 14.00–15.00 Telegu, Marathi, Hindustani 11855 – 13.30–14.00 Tamil 11855, 15300 – 15.15–16.30 Russian 6030, 7240, 9730, 11920, 15300 – 16.30–17.30 Russian 6030, 7240, 9730, 11920, 15300, 11855 kc.
ANN.: (Quaterly): "This is the English Sce. of the FEBC transmitting from the Philippines"; (halfhourly): "This is the English Sce. of the FEBC operating in the (metrebands); (hourly): "This is Manila calling. The English Sce. of the FEBC operating at (give freq.'s). The Time is..."
INT.-SIG.:



V. by QSL-card and letter. Rp. preferred – **PUB.:** prgr schedules free on request. "Signal" (every two months).

4) Cotabato City, Cotabato.

5) National Teachers College, P.O. Box 3032, Manila – **ANN.: E.:** "This is the Voice of Education" – **V.** by letter.

6) **MANILA BROADCASTING COMPANY – Addr.:** Radio Center Philippines, 964 Taft Avenue, Manila. **Cable:** "MANBROADCO" – **L.P.:** Gen. Mgr.: Ira Davis.
a) **THE VOICE OF PHILIPPINES – Addr.:** R. Center Philippines 964 Taft Avenue, Manila.
b) **THE VOICE OF MANILA – Addr.:** R. Center Philippines, 964 Taft Avenue, Manila.
c) **CEBU BROADCASTING COMPANY:** ("VOICE OF CEBU" & "RADIO CEBU"): **Addr.:** Lim Bon Fing Building, Cebu City. **Int.-Sig.:** For DYRC musical chimes: Sol-mi-do.
d) **RADIO PHILIPPINES – Addr.:** R. Center Philippines, 964 Taft Avenue, Manila.
e) **THE VOICE OF LEYTE – Addr.:** Red Beach, Palo, Leyte.
f) **METROPOLITAN BROADC. CO. – Addr.:** R. Center, 964 Taft Ave., Manila – **V.** all st.'s verify by QSL-card. Rp.

7) Silliman University, Dumaguete City – **Te.:** 242 – **L.P.:** Dir. Adm.: H. W. Mack, Dir. Tec.: B. Magdamo. **D. PRGR. in English, Visayan: N. Wrp.:** 22.00, 22.45 (E), 04.00 (E), 10.00, 12.00 (E) – **L.L.:** (English): D 01.00 – **INT.-SIG.:** Sign on: Battle Hymn of the Republic.
ANN.: "This is the Voice of Christian Brotherhood broadcasting stations of the Philippine Federation of Christian Churches, broadcasting in co-operation with Silliman University, Dumaguete City" – **V.** by QSL-card or letter – **F.PL.:** 5 kW on 840 kc, 10 kW (Manila). FM – **PUB.:** Prgr. schedule (quarterly).

8) College of Engineering, University of the Philippines, Diliman, Quezon City – **L.P.:** Dir. Gen.: C. Fonacier. St. Dir.: D. O. Baguio – **D. PRGR. in English: N.:** 11.00 – **ANN.:** "This is the Voice of the State University, DZUP, in Diliman, Quezon City" – **V** by letter (later by QSL-card). Re. in E. Prgr.schedule free on request.

9) 3rd Floor, Development Bank of the Philippines, Claveria St., Davao City. **Te.:** 252 – **L.P.:** Dir. Gen.: G. E. Torres. St. Mgr.: A. Javellana Jr. Dir. Tec.: F. Duldulao – **D. PRGR. in English, Tagalog, Cebuano:** On 740/7280 kc: 21.00–15.00 **N.** (English): 23.00, 05.00. On 900 kc: 12.00–14.00. **N.** (English): 04.45, 11.15. On 810 kc: 22.00–14.00 – **ANN.:** "MBS-Mindanao Broadc. System, DXMC-Davao, DXUM-Davao-DX double M dial 810" – **INT.-SIG.:** DXMC: A gong (musical instrument used by Moros, natives of Mindanao). DXUM: Chimes. DXMM: Musical jingle – **V.** by letter – **F.PL.:** DXMC 10 kW, DXUM 5 kW. Reg. netw. (8 st.'s) in the Islands of Mindanao. TV st. end of 1963.

Medium Waves:

10) **Pacific Broadc. System, Inc.,** Eden Hotel, Legaspi City – **D. Prgr :** 21.00–15.00.

11) **Monserrat Broadc. System.** CBN Bldg., Aduana Str., Intramuros, Manila – **D. Prgr.:** DZMY (Angono, Rizal) 21.00–17.00. DZYY-FM (Minala): 24 h.

12) **Republic Broadc System,** E. de los Santos Ave. Diliman, Quezon City. **Cable:** "Bobstew". **Te.:** 70-02-21 – **L.P.:** Dir. Gen.: R. L. Stewart. **HOME SCE. in English:** DZBB 21.00–16.00. DZXX 20.00–16.00. DYSS/DYOO 21.00–15.00.

N. (on DZBB): 22.45 (exc. Sat/Sun), 08.45 (exc. Sat/Sun).
ANN.: "This is R.B.S. the Republic Broadc. System...your station is DZBB (or DZXX) broadc. from Quezon City" – V. by letter. Re. in E. 13) P.O. Box 1344 Manila. Te.: 8-46-84. DZAQ, DZBC: ABS Bldg., Dewey Blvd., Manila. DZRD/DZRI: Blue Beach, Dagupan City. DZMM: San Juan. DZRB: El Morocco Hotel, Naga City. L.P.: St. Mgr.: R. Caballero.
HOME SCE. in English & Tagalog: 21.00–16.00. N. in English: D 23.00, 13.00 (Mo-Fri). N. in Tagalog: 22.55 (Mo-Fri) on DZBC – ANN.: "This is ABS, largest Philippine Network" – V. by QSL-card. Re. in E. – DZAQ/DZBC: Manila. DZRI: Dagupan; DZRB: Naga; DYCB: Cebu.
14) **R. Mindanao:** Cagayan de Oro City – **D. Prgr.:** 22.00–14.00 in English, Visayan on DXBC (Butuan City), DXIC (Iligan City), DXCC/DXVM (Cagayan de Oro City).
15) **Pioneer Station,** P.O. Box 121, Davao City. DXWW (Davao City): 22.00–15.00. DXJW (Zamboanga City): 22.00–14.00. DXAW (Davao City): 21.00–16.00 in English, Visayan.
16) **Visayan Broadc. System,** P.O. Box 41, Iloilo City – **L.P.:** Dir.: E. Lopez – **D. Prgr.:** DYBC (Cebu City): 21.00–16.00. DYHF (Iloilo City): 21.00–15.00. DYLL (Tacloban): 21.00–16.00. DYRI (Iloilo City): 21.00–16.00. DYWX (Bacolod City)/DYOR (Ormoc City)/DYRM (Dumaguete City)/DYOG (Calba yog City)/DZAL (Legaspi City)/DYML (Tagbilaran, Bohol), DYRX (Roxas City): 21.00–16.00.
17) **Chronicle Broadc. Network,** CBN Bldg., Aduana, Str. Manila. Cable: "CBN, Manila". Te : 30061 – **L.P.:** Gen. Mgr. & Executive Vice Pres.: E. Lopez jr. Dir. Tec.: R. Carballo – **D. Prgr.:** DYPL (Iloilo City)/DYQL (Bacolod City): 21.00–16.00. DZXL (Angono, Rizal): 21.00–15.00. DZQL (Angono, Rizal): 24 h. DYXL (Bacolod City): 21.00–16.00. DYZL-FM (Manila): 21.00–15.00. DXJW: 22.00–14.00 – ANN.: "CBN – the Chronicle Broadc. Network".
18) **Surigao Broadc. Network,** Surigao.
19) **R. Station DZGB,** Legaspi City.
20) **East Visayan Network,** Tacloban City.
21) **Liberty Broadc. Network,** Dagupan City.
22) **R. Station DZCP,** Roman Santos Bldg., Manila – **D. Prgr.:** 21.00–16.00.
23) **R. Station DZAB,** 734 Laguna St., Manila.
24) **Filippines Broadc. Network,** P.O. Box 23, Noga City, Camarines Sur – **D. Prgr** : 23.00–14.00.
25) **R. St. DZDE,** P.O. Box 23, Naga City – **D. Prgr.:** 23.00–14.00.
26) **Associated Broadcasting Corporation,** Florentino Torres Str., Manila. **Te.:** 3-48-55 – **L.P.:** Gen. Mgr.: A. C. Capotosto. Dir. Tec.: R. Raymundo.
HOME SCE. in English: DZTM (Manila) 24 h; DZWS/DZTM (Manila)/DZTD (Dagupan)/DXMT (Davao City): 21.00–16.00. N.: DZMT 21.30, 22.30 and at 23.00–16.00 every h on the h – ANN.: "This is ABC, the Associated Broadc. Corporation – DZMT 1100 kc, ect...". V. by letter. Re. in E. – **PUB.:** Prgr. schedule free on request.
27) **Oceanic Wireless Network, Inc.,** Alliance Bldg., Rosario, Manila – **D. Prgr.:** 22.00–16.00 on DXJC (Jolo, Sulo), DZVS (Sogorson), DZEB (Naga City), DZRL (Laoag), DXJJ (Zamboanga City), DZBS (Baguio City), DXOC (Ozamis City).
28) **Agusan Broadc. Co.,** Butuan City – **D. Prgr.:** 21.00–16.00.
29) **R. Station DYMM,** Bacolod City – **D. Prgr.:** 21.00–17.00.
30) **Luzonian Colleges,** Lucena, Quezon.
31) **Central Philippines Broadc. Co.,** 148 Colon St., Cobu City – **D. Prgr.:** 21.00–16.00.
32) **Bacolod Broadc. System,** Lacson Str., Bacolod City – **D. Prgr.:** 21.00–16.00 – V. by QSL-card or letter.
33) **Mindanao Broadc. Co.,** Marawi City. 22.00–13.00.
34) **Manily Daily Bulletin,** Shurdut Bldg., Intramuros, Manila. **Te.:** 4-54-31 – **L.P.:** Mgr.: S. B. Viduya – **D. Prgr.:** in Tagalog: 21.00–16.00 – N.: 22.00, 13.00 – V. by QSL-card – **PUB.:** Prgr. schedule (monthly) – **D. Prgr.:** 21.00–16.00.
35) **Feati University,** Feati U. Bldg., Sta. Cruz, Manila – **D. Prgr.:** 01.00–13.30 in English, Tagalog.

VOICE OF AMERICA RADIO STATION

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
Medium Waves: Malolos A: 920 kc 326 m 50 kW: 11.00–16.30, 22.00–23.30 – **Poro A:** 1140 kc 263 m 1000 kW: 11.30–16.30.
Short Waves: Malolos 7.5/50 kW: 11.00–16.30, 22.00–23.30.

kc	m	kc	m	kc	m	kc	m
6185	48.50	9635	31.14	15155	19.80	15250	19.67
7135	42.05	9770	30.71	15205	19.73	17745	16.91
9565	31.37	11785	25.46				

Poro 35/100 kW: 09.00–17.15, 22.00–02.30.

kc	m	kc	m	kc	m	kc	m
6125	49.98	9580	31.32	11895	25.22	15335	19.56
7175	41.81	9700	30.93	11900	25.21	15360	19.53
7220	41.55	9770	30.71	15185	19.76	15400	19.48
9535	31.46	11730	25.58	15250	19.67	17845	16.81

D. PRGR.: Medium Wave 920 kc: 11.00–16.30 English, 22.00–22.30 Mandarin, 22.30–23.00 Cantonese, 23.00–23.30 **English.**
Medium Wave 1140 kc:
11.30–12.00 Mandarin 13.30–14.00 Cambod. 15.30–16.00 Vietnam.
12.00–12.30 Cantonese 14.00–14.30 Thai 16.00–16.30 **English**
12.30–13.00 Vietnam. 14.30–15.00 Mandarin
13.00–13.30 Lao 15.00–15.30 Amoy **Short Wave:** See USA
ANN.: "This is the Voice of America Relay station in the Philippines".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia the Gem of the Ocean". See USA – V. by QSL-card.
ARMED FORCES RADIO & TV SERVICE: see USA.

RYUKYU ISLANDS

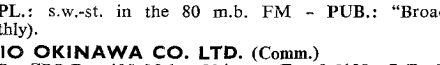
L.T.: GMT+9 h – **Pr.L.:** Japanese, English, Okinawan.

RYUKYUS BROADCASTING CORPORATION (Comm.)

ADDR.: CPO Box 4, Naha, Okinawa. **Te.:** 8-4161 – **L.P.:** Pres.: S. Zayasu. Dir. Tec.: T. Washimine.
STATIONS: KSAR 740 kc 5 kW (Japanese prgr.) – KSBK 880 kc 3 kW (English prgr.).
HOME SCE.: Japanese: 20.00–16.00. **English:** 20.00–15.00.
N. in English: every h on the h.
ANN.: "KSAR", "RBC" or "Ryukyu hoso des" every 15 or 30 min KSBK: "Radio 880" – V. by QSL-card.

FAR EAST BROADCASTING CO. (Non-Comm., missionary)

FI.: By freewill gifts – **ADDR.:** CPO Box 55, Naha. **Cable:** Febcomb. **Te** : 37287 – **L.P.:** Dir.: R. Reynolds. Dir. Tec.: D. Hudson. Dir. Prgr.: D. Wilkinson (KSAB), (KSPX), R. Kaufman (KSBU).
STATIONS (Systems: Raytheon, G.E.):
KSAB 1020 kc 1 kW – KSBU 850 kc 100 kW – KSDX 1250 kc 1 kW
HOME SCE : KSAB: English: W 20.30–14.00. Sun 22.30–14.00 – **N. Wrp** : 20.30, 21.55, 22.55, 23.55, 00.55, 02.45, 04.55, 08.45, 11.45. Sun 03.00, 08.45, 11.45.
KSDX: Japanese: D 22.00–17.00 – **N.:** 22.30, 23.30, 02.30, 03.30, 09.30, 12.30, 14.10 – **KSBU: Chinese:** (beamed towards Shanghai): D 12.00–15.00.
ANN.: Call letters every 15 or 30 min.
INT.-SIG.: Vibraphone – V. by QSL-card or letter. Rp. preferred



– **F.PL.:** s.w.-st. in the 80 m.b. FM – **PUB.:** "Broadcaster" (monthly).

RADIO OKINAWA CO. LTD. (Comm.)

ADDR.: CPO Box 405, Naha, Okinawa. **Te.:** 8-5128 – **L.P.:** Pres.: S. Kishimoto. Dir. Tec.: T. Taguchi.
STATION: KSDT 780 kc 5 kW.
HOME SCE.: 20.00–15.00 in Japanese.
ANN.: "KSDT, ROK" or "Radio Okinawa des" at 15 or 30 min. intervals – **INT.-SIG.:** Chimes or audio tones – V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
Medium Wave: Okinawa-A 1178 kc 255 m 1000 kW: 11.00–16.30.
Short Wave: Okinawa 35/100 kW: 09.00–16.30, 20.00–01.30.

kc	m	kc	m	kc	m	kc	m
6010	49.92	6170	48.62	7235	41.47	15210	19.72
6075	49.38	7155	41.92	9620	31.19	15370	19.52
6145	48.82	7160	41.90	11960	25.08		

D. PRGR.: Medium Wave:
11.00–11.30 **English** 12.30–13.00 Mandarin 14.30–15.00 Mandarin
11.30–12.00 Mandarin 13.00–13.30 Korean 15.00–15.30 Russian
12.00–12.30 Russian 13.30–14.00 Mandarin 15.30–16.00 Mandarin
14.00–14.30 **English** 16.00–16.30 **English**
Short Wave: see USA.
ANN.: "This is the Voice of America Relay st. on Okinawa" – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA – V. by QSL-card.
ARMED FORCES RADIO & TV SCE: see USA.

SARAWAK

L.T.: GMT+8 h – **Pr.L.:** English, Malay, Chinese, Dayak, Melanao.

SARAWAK BROADCASTING SERVICE (Go.)

ADDR.: Radio Sarawak, Broadcasting House, Kuching. **Cable:** Broadcast. **Te.:** 2345.
L.P.: Dir. Broadc.: P. Ratcliffe, OBE. Dir. Tec.: J. R. Sandison.
STATIONS (System: Marconi).

730 kc	410.9 m	10 kW		4950 kc	60.60 m	7.5 kW	
850 –	352.9 –	5 –		7160 –	41.90 –	7.5 –	
4835 –	62.05 –	5 –		7270 –	41.27 –	5 –	

HOME SERVICE:
Morning Sce.: On 730/4950/7160 kc: 22.55–00.15 D in English, Malay, Chinese – **Sce. for Schools** on 730/7160/7270 kc: 01.00–02.30 (Mo–Fri during term) in English, Malay, Dayak.

Midday Sce.: 04.00–05.00 (D exc. Fri) on 850/7160 kc in Malay, Melanau, Dayak. 04.00–05.30 (Fri) on 850/7160 kc in Malay. 04.00–05.00 (Fri, Sat 05.30) in Chinese, English. 04.00–05.30 (Wed) on 7270 kc in English. 05.00–06.30 (Sat, Sun) on 730/7160/7270 kc in English – Malay/Dayak Sce.: 08.30–14.00 on 850/4835 kc. Malay: 08.30–10.00, 12.30–14.00. Dayak: 10.00–12.30.
English/Chinese Sce.: 08.30–14.30 on 730/4950 kc, 14.30–15.00 (Sat only) on 730/4835/4950 kc – English: 10.30–12.00, 13.00–14.30 (Sat 15.00) – Chinese: 08.30–10.30, 12.00–13.00.
N.: English: 23.00 (BBC), 24.00 (Thurs, Fri), 05.00 (ABC), 11.00, 13.00 (BBC). Malay: 23.30 (Tues, Wed), 12.30, 12.45 (BBC), 12.50 – L.L.: (English): Tues, Fri 09.15 in Chinese Sce., W 09.45 in Malay Sce., Tues, Wed, Fri, Sat 12.00 in Dayak Sce.
ANN.: E: "This is Radio Sarawak". Malay: "Ini-lah R. Sarawak". Dayak: "Tu R. Sarawak" – INT.-SIG.: A musical phrase played on a native instrument, the Sapé, a musical phrase alternating between A and F – V. by QSL-card – F.PL.: increase power 20 kW evening 10 kW day time from 31/8 63 – PUB.: "R. Times" (fortnightly).

SAUDI ARABIA

L.T.: GMT+3 h – Pr.L.: Arabic.

SAUDI ARABIA BROADCASTING (Go.)

ADDR.: General Directorate of Press and Broadcasting and Publications, Jeddah. Cable: Broadcasting – L.P.: Minister of State: Sheikh A. Balkhair. Dir. of Press: G. Abou Al-Faraq. Dir. Prgr.: A. Gazawi. Dir. Tec.: A. Andreou.
STATIONS: Jeddah. (*=comnidirectional)

723 kc	414 m	50 kW*		5975 kc	50.21 m	3 kW	d. Ea.
6100 –	49.18 –	3 –	d. No.	11950 –	25.10 –	10 –	*

HOME SERVICE in Arabic: Approx. 04.00–06.15, 11.00–12.45, 17.00–17.35, 18.00–21.00. H of tr. depends on sunset.
FOREIGN SERVICE:
Indonesian: 13.00–14.00 (N. 13.45) – Urdu: 14.00–15.00 (N. 14.15) on 723/11950 kc.
ANN.: Home Sce.: "El Izaa el Arabia el Seoudia". Foreign Sce.: "Disini Radio Saudi Arabia" (Indonesian). "Mecca Mukarama Kay Awas Saudi Arab Radio" (Urdu) – INT.-SIG.: Call to prayer (az'an) played on flute – V. by letter – F.PL.: Jeddah: one 100 kW and one 50 kW sw.-tr. at the end of 1963. Riadh: one 50 kW mw.-tr., one 50 kW sw.-tr. within 3 years.

ARMED FORCES RADIO & TV SCE: see USA.

SINGAPORE (British)

L.T.: GMT+7½ h – Pr. L.: Malay, Chinese, Tamil, English.

RADIO SINGAPORE (Go.)

ADDR.: Broadcasting Division, Ministry of Culture, P.O. Box 1902, Singapore. Cable: Broadcast. Te.: 52201 – L.P: Head of Broadc. Div.: J. H. Duclos. Dir. Tec.: G. Ang. Contr. Prgr.'s: C. V. Doral.
STATIONS (Systems: Collins, AWA, Marconi, STC, RCA, Philips):

kc	m	kW	Prgr	kc	m	kW	Prgr
630	476.2	10	E	4820	62.24	22.5	NS
680	441.2	10	C	6175	48.58	22.5	M/T
790	379.5	10	M/T	7170	41.84	22.5	C
990	303.0	20	NS	7250	41.38	15	E

E=English Sce; C=Chinese Sce; M/T=Malay/Tamil Sce; NS=National Sce. (Suora Singapura).
English Service on 630, 7250 kc: Mo-Fri: 22.30–01.30, 03.30–07.30, 09.30–16.30. Sat: 22.30–01.30, 03.30–16.30. Sun: 22.30–16.30.
N: 23.30, 00.30, 06.00, 11.30, 14.00 – Comm. prgr's: 22.30, 04.30, 09.30, 12.30.
Chinese Service on 680/7170 kc: D 22.30–16.30 – Comm. prgr's: 22.30, 04.30, 09.30, 12.30.
Indian (Tamil) Sce. on 790/6175 kc: 22.30–23.45, 05.45–07.30, 09.00–10.30. Comm. prgr's: 22.30, 05.45, 09.00.
Malay Service on 790/6175 kc: 23.45–01.30, 04.30–05.45, 12.00–16.30. N.: 00.00, 05.30, 13.00, 14.00. Comm. prgr's: 23.45, 04.30, 12.00, 12.30.
National Service on 990/4820 kc: 10.30–15.30.
ANN.: E.: "This is Radio Singapore".
INT.-SIG.: Chimes – V. by QSL-card. Rp.

FORCES BROADCASTING SERVICE (British Mil.)

ADDR.: Forces Broadcasting Unit, GHQ FARELF, c/o GPO Singapore. Te.: 2801 – L.P.: St. Comm.: W. J. O. Ettridge.
STATION (System: Marconi): 5010 kc 59.88 m 10 kW.
HOME SCE.: 12.00–15.00.
British Prgr.: 13.45–15.00 – Gurkha Prgr.: 12.00–13.45.
ANN.: "This is the Forces Broadcasting Service Singapore" – V. by QSL-card.

BBC FAR EASTERN STATION

ADDR.: Caldecott Hill Studios, P.O. Box 434, Singapore. Cable: Febrocast. Te.: 86321 – L.P.: Head of Sec.: G. A. Tree.

kc	m	kc	m	kc	m	kc	m
6110	49.10	11725	25.59	15360	19.53	21640	13.86
6175	48.58	11750	25.53	15420	19.46	21650	13.86
7110	42.19	11820	25.38	15435	19.44	21655	13.86
7135	42.05	11880	25.25	17755	16.90	21720	13.81
7260	41.32	11920	25.17	17790	16.86	21740	13.80
9560	31.38	11930	25.15	17870	16.79	25650	11.70
9625	31.17	11955	25.09	17890	16.77	25850	11.61
9690	30.96	15260	19.66	21485	13.96		
9725	30.85	15310	19.60	21610	13.88		

Relays of G.O.S.	h of tr.	m.b. All the year round
No. E. China, Hong Kong, Japan:	09.15–11.30	25, 19, 16
	11.30–13.15	19
So. China, Vietnam, Laos, Cambodia:	09.15–11.30	25, 19, 16
	11.30–13.15	19
	13.00–13.45	25, 19, 16
	14.00–14.45	31
	14.15–16.50	25
Indonesia:	09.15–10.30	41, 31, 25
	11.00–11.30	41, 31, 25
Burma, Thailand:	09.15–11.30	25, 16
	13.00–14.00	25, 19, 16
	14.15–16.50*	31, 25
India, Pakistan, Ceylon:	13.00–16.50*	19
	16.15–16.50	25
Australia, New Zealand:	09.15–10.30	31, 25
	11.00–11.30	31, 25
Australia:	13.00–13.15	25

*) Oct-March closes 16.35 Mo-Fri, 17.20 Sat.

Relays of Asian Service:

	Language	H. of tr.	m.b.
Japan:	Japanese	11.00–11.30	25
China, Vietnam	Kuoyo	12.00–12.30	25, 16, 13, 19
Laos, Cambodia:	Cantonese	12.30–12.45	25, 16, 13, 19
Vietnam, Laos Cambodia:	Vietnamese	11.30–12.00	31, 25, 19
Thai		13.15–13.45	19, 25
Indonesia:	Indonesian	10.30–11.00	41, 31, 25
Burma, Thailand:	Burmese	13.45–14.15	25, 19
India, Pakistan, Ceylon:	So. Asian Reg.*	15.45–16.15	25
	Urdu	14.15–15.00	25
	Hindi	15.00–15.45	25

*) Sinhalese Tues, Fri, Tamil Sun, Thurs, Bengali Mo, Wed, Sat.

REDIFFUSION (SINGAPORE) LTD. A subsidiary of Rediffusion Ltd. London (Comm.). FI.: By wired subscription charges and adv. – ADDR.: P.O. Box 608, 182 Clemenceau Ave. Cable: Rediffuse. Te.: 25011. – L.P.: Man. Dir.: G. H. Oldridge. St. Mgr.: N. Snowden. – D. PRGR.: 2 simultaneous wired broadcasting networks. Originating own prgrs. and rel. "Radio Singapore", B.B.C., etc. D. 23.30–16.30.

SYRIA

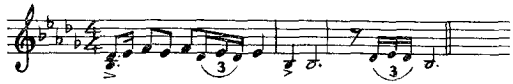
L.T.: GMT+2 h – Pr. L.: French, Arabic.

SYRIAN BROADCASTING SERVICES (Go.)

ADDR.: Rue de la Victoire, Damascus – L.P.: Dir. Gen.: Y. El-Shahabi.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	0W
584	513.8	5	746	402.0	2	7398	40.56	7
602	498.2	2	863	347.6	10	11750	25.53	20
665	451.2	50	1313	228.5	10	15165	19.78	20
710	417.2	2	5675	52.80	20	17865	16.80	20

HOME SERVICE:
Arabic: 04.00–08.00, 11.30–14.00, 15.00–23.00 on 584/565/746/1313/5675/11750 kc; 07.00–17.00 on 7398 kc; 08.00–11.00, 14.00–15.00 on 602/719/863 kc – English: 05.30–06.15, 15.30–17.30 on 602/719 kc – French: 06.15–07.30, 17.30–19.30 on 602/719 kc – Hebrew: 14.00–15.00 on 665 kc – Turkish: 11.00–11.30 on 665/746/5675 kc.
FOREIGN SERVICE:
French (to Europe): 19.30–20.00 on 15165 kc – English (to Europe): 20.00–20.30 on 15165 kc – Arabic (to No. Africa): 21.00–22.00 on 15165 kc – Arabic & Spanish (to Central & So. America): 23.00–01.00 on 15165/17865 kc.
ANN.: Arabic: "Houna Dimashk". E: "This is Damascus Calling". F: "Ici Damas". S: "Aqui Damasco". Hebrew: "Kol Damasseh" – INT.-SIG.: Guitar.



V. by QSL-card and letter – F.PL.: 300 kW tr.

THAILAND

L.T.: GMT+7 h – Pr.L.: Thai.

THE THAI NATIONAL BROADCASTING STATION (Go.)

ADDR.: Public Relations Department, Bangkok – L.P.: Dir. Gen.: S. Jarusrenee. Mgr.: V. Amphaivorn. Dir. Tec.: A. Pochanabhisut. Foreign Rel. Mgr.: C. Rangsikul.

STATIONS:

Call	kc	m	kW	Call	kc	m	kW
–	810	370.4		–	6090	49.26	
HSK	830	361.0	10	–	6380	47.06	
–	856	350.4		–	7145	41.99	1
–	915	326		–	7305	41.07	
HSK4	4830	62.10	1	–	8500	35.29	
–	6010	49.92		HSK7	11910	25.18	0.5
HSK5	6070	49.42	1	HSK9	11910	25.18	50

HOME SCE.: In Thai: 00.00–01.00, 12.00–15.30 on 830/4830/6070/7145/11910 kc – Wrp.: 00.03 – T.S.: 00.00, 12.00, 13.00 – N.: 13.00 – Other languages: English: 23.30–01.00, 05.30–07.00 on 915/6010 kc. French (Mo–Fri): 05.30–06.00 on 8500/11910 kc. Chinese: 02.30–02.45, 04.30–04.45 on 856/690 kc. Laotian: 02.00–03.00 on 810/830/4830 kc, 13.05–13.30 on 856/6090 kc. Malay: 06.30–06.45 on 856/6090 kc.

FOREIGN SERVICE:

To No. America: 04.15–05.15 on 11910 kc (HSK9) – N. English: 04.25–04.40.

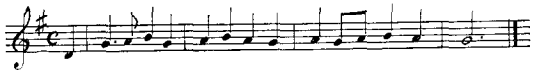
To Thai Forces in Korea, Vietnam, Cambodia: 09.30–10.20 on 6380/7305/11910 kc – N. Thai: 09.32. Vietnamese: 09.45. Cambodian: 10.00.

General Overseas Sce.: 10.25–11.57 on 6380/7305/11910 kc – N. English: 10.30–10.45. Malay: 11.30. Chinese (Kuoyu): 11.45.

Relay Home Sce.: 13.00–14.00 on 11910 kc.

ANN.: E.: "This is the Overseas Broadcasting Station of Thailand". F.: "Ici Radio Bangkok". Thai: "Thini Stani Vitayu Krajai Sieng hang Pra Thes Thai".

INT.-SIG.:



V. by letter. Re. to The Overseas Broadcasting Division, Public Relations Dept., Bangkok.

MINISTRY OF EDUCATION (Go.)

ADDR.: Division of Educational Inf., Ministry of Education, Bangkok – L.P.: Dir. Div. of Educational Inf.: Mrs. A. Meesok.

STATIONS:

1180 kc 254.2 m 2 kW – 3202 kc 93.69 m 2 kW – 6062 kc 49.48 m 2 kW

HOME SCE. in Thai, English: 11.00–13.00.

N.: 11.35, 12.55 – Nat. Music: 12.10–12.55 – English: Wed 11.50–12.10: one Tues monthly 12.10–12.55.

ANN.: E: "This is the Education Broadcasting Station of Thailand, broadcasting on a frequency of..." – F.PL.: Increase to 10 kW.

R. STATION HSIJS (Go., Comm.)

FI.: By State and adv. – ADDR.: Bang-Sue, Bangkok. Te.: 46591 – L.P.: Dir. Gen.: K. Kengradomying.

STATIONS: HS1JS 650 kc 461.5 m – HS4JS 1400 kc 214.3 m 1 kW.

ANN.: "Tee-Nee Satanee Vitayu Krachaisiang Cho-So" – F.PL.: Two 10 kW m.w. st.'s within 5 years.

PITUKSUNTIRADSE RADIO STATION (Go.)

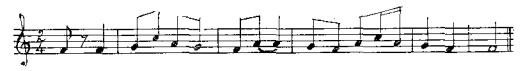
ADDR.: Paruksakavun Palace, Bangkok.

HOME SCE.: HSQ: Network I: 23.00–01.00, 04.00–07.00, 10.00–13.00. 900 kc 333.3 m – 4770 kc 62.89 m – 7230 kc 41.49 m: 1 kW.

Network II: 04.00–07.00, 09.00–15.00. 950 kc 315 m 0.25 kW.

Network III: 23.00–02.30, 05.00–06.00, 08.30–15.15. 1430 kc 210 m – 4620 kc 64.93 m – 5850 kc 51.27 m – 7620 kc 39.37 m: 0.5 kW.

INT.-SIG.:



THAI TELEVISION CO. LTD. (Comm.)

ADDR.: Mansion B. Rajadammern Ave., Bangkok. Cable: "Thaitevi". Te.: 25061 – L.P.: Managing Dir.: N. P. Hongsanand.

STATIONS:

1146 kc 262 m – 1500 kc 200 m – 5270 kc 56.93 m: N.: 16.00.

HOME SCE.: 22.57–16.20.

ANN.: E: "This is Thai TV-Radio, the broadcasting station of the Thai Television Company".

TIMOR (Portuguese)

L.T.: GMT+8 h – Pr.L.: Portuguese.

RADIO DILI (Go.)

ADDR.: Dili – STATIONS: 1080 kc 278 m 1 kW – 2380 kc 126.0 m 1 kW – 3268 kc 91.78 m – D. PRGR. on 1080/3268 kc: 00.00–15.00.

TURKEY

L.T.: GMT+2 h – Pr.L.: Turkish.

RADIO ANKARA (Go.)

ADDR.: Office: Ministry of Information, Broadcasting and Tourism, Ankara. Cable: Basin-Yayin, Ankara – L.P.: Dir. Gen.: N. Sönmez. Special Adviser to the Minister, Radio and TV: A. Kiliç. Dir. of Turkish Broadc. St's Dept.: R. A. Sevengil. Dir. of R. Ankara: M. T. Ongören. Dir. of R. Istanbul: S. Akgöl. Dir. of R. Izmir: C. Ozankan. Dir. Tec.: M. Eke. Counsellor to the Dir. Gen.: Y. Mardin.

HOME SERVICE in Turkish:

Ankara	182 kc	1648 m	120 kW:	Mo–Fri 04.57–08.30, 09.57–13.00, 14.57–22.30. Sat 04.57–08.30, 09.57–22.30. Sun 05.27–22.30. N.: 05.30, 11.00, 17.00, 20.45.
Istanbul	701 –	428.0 –	150 – :	Mo–Fri 05.27–07.00, 09.57–13.00, 14.57–22.00. Sat 05.27–07.00, 09.57–22.00. Sun 05.27–22.00. N.: 06.00, 11.15, 16.45, 21.00.
Van	6025 –	49.79 –	0.3 – :	D 06.00–07.00, 10.00–11.30, 13.00–17.00.
Izmir	6085 –	49.30 –	0.3 – :	D 07.58–10.00, 14.58(Sun 13.58)–20.00. N.: 11.30, 16.30.
Erzurum*	7650 –	39.21 –	1 – :	D 05.00–06.30, 10.00–11.30 (Sun 12.00), 16.00–19.30.
Diyarbakir	9760 –	30.74 –	0.3 – :	D 10.00–11.00, 17.00–19.00.
Iskenderun	9770 –	30.70 –	0.3 – :	D 10.00–11.00, 17.00–19.00.

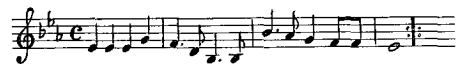
* Relays only news, it has its own independent programmes.

Regional Stations:

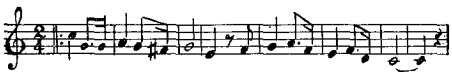
Istanbul	963 kc	311.6 m	2 kW: 16.00–22.00
Izmir	1033 –	290.4 –	2 – : W 08.00–11.00, 15.00(Sat 14.00)–21.00. Sun 07.00–21.00.
Ankara	1063 –	282.2 –	2 – : 16.00–21.00.
Adana	1133 –	264.8 –	2 – : 16.00–20.00.

ANN.: "Burasi Ankara" (This is Ankara) or "Burasi Istanbul Radyosu" (This is Radio Istanbul).

INT.-SIG.: R. Ankara:



R. Istanbul:



FOREIGN SERVICE: TAP 20 kW, others 100 kW

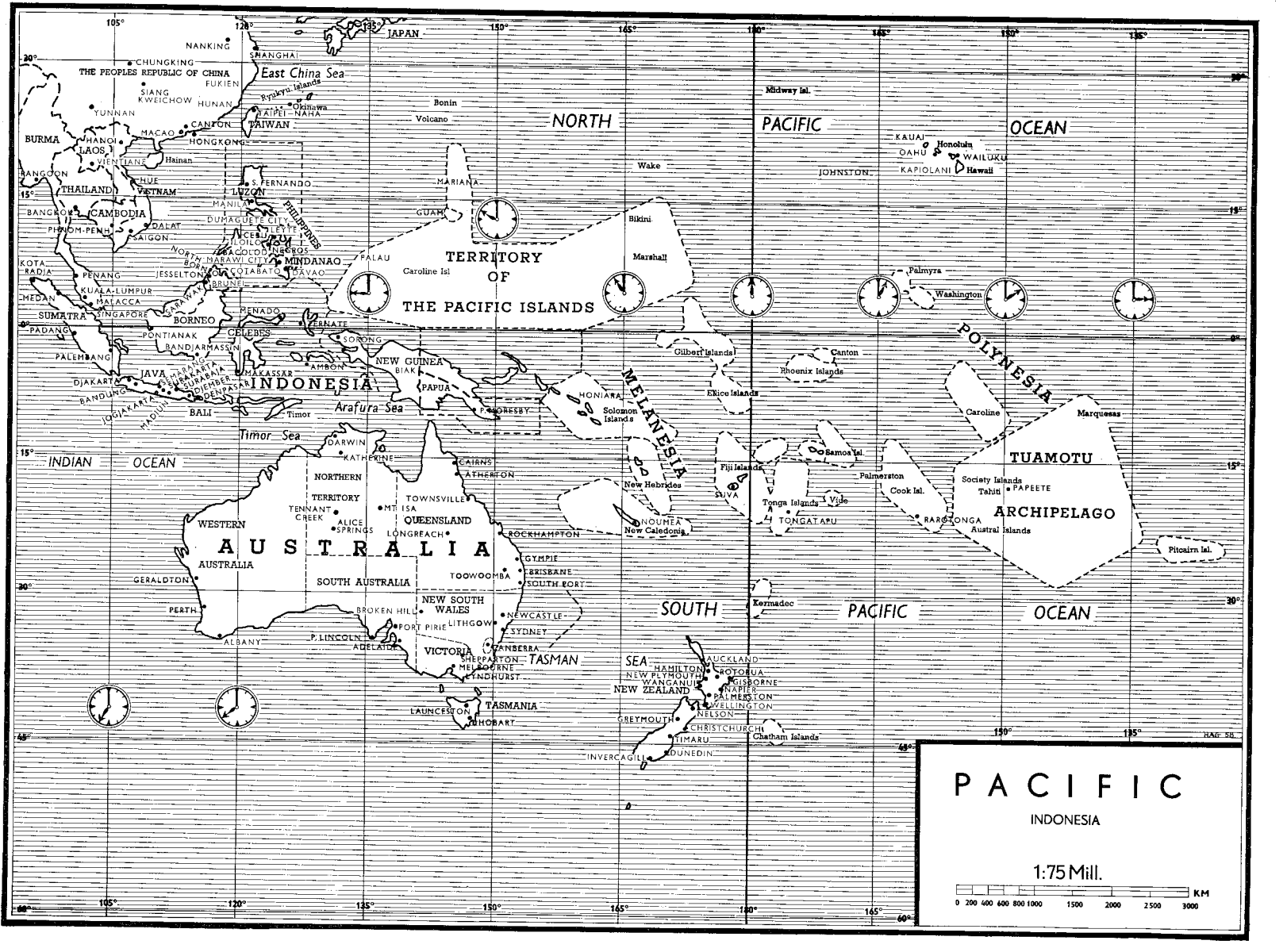
TAS 7285 kc 41.18 m – TAT 9515 kc 31.53 m – TAP 9745 kc 30.78 m TAP to Balkan, Near East; TAS to C. & We. Europe; TAT: 13.00 to India, 22.30 to So. Am., 23.15 to No. Am.

Arabic	kc	Italian	kc
05.00–05.30	9745	19.45–20.15	7285, 9745
15.30–16.00	9515, 9745	Persian	
17.30–18.00	9745	13.30–13.45	9515
Bulgarian		15.00–15.30	9515, 9745
17.00–17.15	7285, 9745	Polish	
English		19.00–19.15	7285, 9745
13.45–14.15	9515	Pushtu	
21.45–22.30	7285, 9745	13.00–13.30	9515
23.15–24.00	9515	Rumanian	
French		16.45–17.00	7285, 9745
20.15–20.45	7285, 9745	Serbo-Croat	
German		16.30–16.45	7285, 9745
19.15–19.45	7285, 9745	Spanish	
Greek		22.45–23.00	9515
16.15–16.30	9515	Turkish	
Hungarian		20.45–21.45	7285, 9745
18.45–19.00	7285, 9745	Urdu	
		14.15–14.45	9515

N. at the beginning of every transmission.

ANN.: E.: "This is Ankara Radio". F.: "Ici Postes Emetteurs de Turquie, Radio-Ankara a Ondes Courtes Emettant sur une longueur d'onde de...". G.: "Hier ist der Türkische Landessender Ankara, auf Kurzwelle...". I.: "Qui Radio Ankara, Stazione ad onde corte, di...". Sp.: "Aqui habla Radio Ankara-Turquia. Emitiendo en onda corta con una longitud de...". Turkish: "Burasi Türkiye Radyoyayin Postalari, Kisa Dalga Ankara Radyosu".

INT.-SIG.: as for Home Sce. – V. by QSL-card – F.PL.: Erzurum 245 kc, Izmir 971 kc 100 kW (1964) – PUB.: Prgr. schedule (weekly) for R. Ankara, R. Istanbul, R. Izmir.


PACIFIC
INDONESIA
1:75 Mill.
KM
0 200 400 600 800 1000 1500 2000 2500 3000
HAG 58
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TERRITORY OF THE PACIFIC ISLANDS
INDONESIA
AUSTRALIA
MELANESIA
POLYNESIA
MICRONESIA
TUAMOTU ARCHIPELAGO
East China Sea
Arafura Sea
Timor Sea
TASMAN SEA
THE PEOPLES REPUBLIC OF CHINA
JAPAN
PHILIPPINES
NEW GUINEA
NEW ZEALAND
Midway Isl.
Wake
Bikini
Marshall
Caroline Isl
Gilbert Islands
Phoenix Islands
Ellice Islands
Canton
Palmyra
Washington
Honolulu
Hawaii
Fiji Islands
Samoa Isl.
Tonga Islands
Cook Isl.
Society Islands
Tahiti
Marquesas
Caroline
Pitcairn Isl.
Kermadec
Chatham Islands
Solomon Islands
New Hebrides
New Caledonia
Timor
Bonin Volcano
Ryukyu Islands
Okinawa
Hainan
Sumatra
Borneo
Celebes
Java
Bali
Tasmania
Darwin
Cairns
Townsville
Brisbane
Sydney
Canberra
Melbourne
Adelaide
Perth
Albany
Geraldton
Broken Hill
Alice Springs
Tennant Creek
Mt Isa
Longreach
Rockhampton
Gympie
Toowoomba
Newcastle
Auckland
Wellington
Christchurch
Dunedin
Hobart
Launceston
Nelson
Greymouth
Timaru
Invercargill
Hamilton
Rotorua
Gisborne
Napier
Palmerston
New Plymouth
Wanganui
Suva
Noumea
Rarotonga
Austral Islands
Vila
Tongatapu
Honiara
Port Moresby
Darwin
Kuala Lumpur
Singapore
Jakarta
Bandung
Yogjakarta
Surabaya
Semarang
Denpasar
Makassar
Ambon
Ternate
Menado
Manado
Davao
Mindanao
Luzon
Manila
Cebu
Leyte
Mindoro
Palau
Guam
Mariana
Taipei
Taiwan
Naha
Nanking
Shanghai
Chungking
Canton
Macao
Hongkong
Hanoi
Laos
Vientiane
Thailand
Vietnam
Hue
Cambodia
Phnom-Penh
Saigon
Dalat
Burma
Rangoon
Bangkok
Medan
Padang
Palembang
Pontianak
Bandjarmassin
Sorong
Biak
Papua
Johnston
Kauai
Oahu
Wailuku
Kapiolani

TECHNICAL UNIVERSITY OF ISTANBUL (Go.)
ADDR.: Teknik Üniversite, Elektrik Fakültesi, Yüksek Frekans Tekniği Kürsüsü, Istanbul. Te.: 482250 – **L.P.**: Dir. Gen.: Prof. Dr. M. Santur. Dir. Tec.: Prof. Dr. A. Ataman.
HOME SERVICE: I.T.U. = Istanbul Teknik Üniversitesi.
6299 kc 47.62 m 1 kW: 18.15–20.00 (exc. Sat)
7018 – 42.74 – 0.5 – : 18.15–20.00 (exc. Sat)
FM: 99.5 Mc 0.25 kW: 18.15–20.00 (exc. Sat).
Frequencies are shifted slightly if interference occurs.
D. PRGR.: National (Turkish) and Classical music, Turkish music: Sun, Tues, Thurs 18.15–18.45.
ANN.: Turkish: "Burasi Istanbul Teknik Üniversitesi Radyosu". E.: "Here is the R. Station of the Technical University of Istanbul".
INT.-SIG.: "Turkish March" by Mozart – V. by letter. R.p.
PUB.: Prgr.schedule (weekly).
ARMED FORCES RADIO & TV SCE: see USA.

VIETNAM (Democratic Republic)

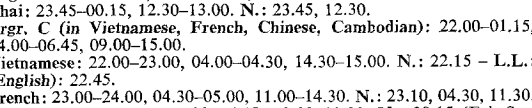
L.T.: GMT+7 h – **Pr.L.**: Vietnamese.
THE VOICE OF VIETNAM (Go.)
ADDR.: No. 58, Quan-Su Street, Hanoi. Te.: 4134 – **L.P.**: Dir. Gen.: T. Lâm. Dir. Foreign Prgr.s: L. Quy.
STATIONS: Hanoi
Network I (Home Service): 1010 kc 297.0 m – 9760 kc 30.74 m – 6050 kc 49.59 m – 12055 kc 24.89 m
Network II (Foreign Service): 1200 kc 250.0 m – 9840 kc 30.49 m – 11840 kc 25.34 m
HOME SERVICE: 21.50–23.45, 03.30–05.50, 09.00–13.00 – N.: 22.30, 04.20, 11.00.
FOREIGN SERVICE: 23.00–23.30, 04.00–06.00, 09.00–15.45.
English: 01.00–02.00, 10.00–10.30, 13.30–14.00, 15.30–15.45 (Music) – **French**: 04.00–04.15, 04.15–04.30 (Music), 04.30–05.00, 10.30–11.00 – **Cambodian**: 09.15–09.45, 13.00–13.30 – **Cantonese**: 09.45–10.00, 14.30–15.00 – **Laotian**: 05.30–06.00, 12.30–13.00 – **Standard Chinese**: 11.00–11.30 – **Thai**: 12.00–12.30, 15.00–15.30.
ANN.: E: "This is the Voice of Vietnam, Hanoi" – V. by QSL-card.

VIETNAM (Republic)

L.T.: GMT+8 h – **Pr. L.**: Vietnamese, French, Chinese.
NATIONAL RADIO BROADCASTING NETWORK (Go.)
Called "VTVN" (Standing for "Vo-Tuyên Viet-Nam").
ADDR.: 3 Duong Phan-Dinh-Phung, Saigon. Te.: 25934. Cable: "VTVN" – **L.P.**: Dir.: Pham-Xuân-Ninh. Dep. Dir.: Trinh-van-Tân. Dir. Tec.: Nguyên-van-Lân. Dir. Prgr.: Buu-Nghi. Dir. Adm.: Huynh-van-Phan.
STATIONS: Radio VTVN, Saigon.

kc	m	Prgr.	kc	m	Prgr.	kc	m	Prgr.	kc	m	Prgr.
610	491	B	1090	275	C	6165	48.66	A	9620	31.19	C
750	400	D	1360	220	AFRS	7245	41.41	A	11920	25.17	A
870	344.8	A	4877	62.51	A	7265	41.29	B			

FM: 99.9 Mc (AFRS), 103 Mc (B), 105 Mc (C), 105 Mc (A).
HOME SCE.:
Prgr. A (in Vietnamese only): 22.00–16.00. N.: 22.15, 23.00, 23.45, 02.50, 04.30, 08.00, 11.00, 13.20, 15.55.
Prgr. B (in Vietnamese, English, Thai): 22.00–00.15, 03.30–07.00, 09.00–15.30.
Vietnamese: 22.00–23.15, 03.30–05.00, 05.45–07.00, 09.00–12.30, 13.45–15.30. N.: 22.15, 04.30, 11.00 – L.L.: **(English)**: 13.45.
English: 23.15–23.45, 05.00–05.45, 13.00–13.45. N.: 23.15, 05.00, 13.00.
Thai: 23.45–00.15, 12.30–13.00. N.: 23.45, 12.30.
Prgr. C (in Vietnamese, French, Chinese, Cambodian): 22.00–01.15, 04.00–06.45, 09.00–15.00.
Vietnamese: 22.00–23.00, 04.00–04.30, 14.30–15.00. N.: 22.15 – L.L.: **(English)**: 22.45.
French: 23.00–24.00, 04.30–05.00, 11.00–14.30. N.: 23.10, 04.30, 11.30.
Chinese: 00.00–01.15, 05.00–06.45, 09.00–10.00. N.: 00.15 (Fri, Sun 00.30), 05.00, 09.40, 10.45.
Cambodian: 10.00–11.00. N.: 10.05, 10.50.
D. Prgr. (in Chinese only): 09.00–13.00. N.: 09.40, 10.45, 12.15.
AFRS Prgr. (in English only): 22.00–16.00.
ANN.: Vietnamese: "Dây là Dài Tiêng Nói Núoc Viêt-Nam Công-Hòa phát thanh tù Saigon". F.: "Ici VTVN, La voix de la république du Viet-Nam, émettant de Saigon". E.: "This is VTVN, the Voice of the Republic of Viet-Nam broadcasting from Saigon".
INT.-SIG.:



V. by QSL-card.

REGIONAL STATIONS:

Location	kc	m	Location	kc	m
Huê	670	447.7	Banmethuot	4810	62.37
Banmethuot	690	434.8	Dalat	6116	49.05
Baxuyen	780	385.0	Dalat	7142	42.01
Quang Ngãi	890	337.0	Huê	7205	41.64
Dalat	1440	208.0	Huê	9670	31.02
Nhatrang	1537	195.0	Nhatrang	9720	30.86

Huê: In Vietnamese: 22.00–00.45, 02.00–05.45, 08.00–15.00. **Banmethuot**: Sedang 23.00–23.30. Bahnar 23.30–24.00. Djarai 03.00–03.30. Dde 03.30–04.00. Vietnamese 04.00–06.00, 10.00–14.00.
Baxuyen: Cambodian 23.00–24.00, 09.00–10.00. Vietnamese 03.30–05.00, 10.00–13.00.
Quang Ngãi: Vietnamese 22.30–00.15, 03.30–05.15, 10.00–13.00.
Dalat: Vietnamese 23.30–00.15, 04.00–06.00, 10.15–13.45. Koho-Churu: 00.15–01.15, 09.45–10.45.
Nhatrang: Vietnamese 22.15–00.15, 02.00–05.45, 08.00–15.00.

WEST NEW GUINEA

See last min. information page 244.

YEMEN

L.T.: GMT+3 h – **Pr.L.**: Arabic.
RADIO SANAAH (Go.) 5955 kc 50.38 m 25 kW: 16.45–20.45.
ANN.: "Huna Sana, dar idha'at al-Mamlakah al Mutawakkiliyah al-Yamaniyah li ad-Duwal al-Arabiyah al-Muttahida". (This is Sana, broadcasting station of the Mutawakkilite Yemeni Kingdom of the United Arabic States).

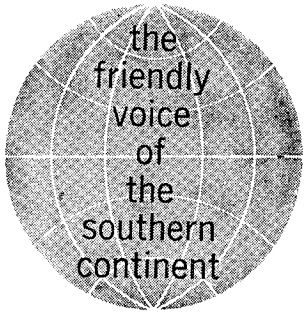
AUSTRALIA

L.T.: Ea. Austr.: GMT+10 h., So. Austr.: GMT+9½ h., We. Austr.: GMT+8 h. – **Pr. L.**: English.
AUSTRALIAN BROADCASTING COMMISSION (ABC)
Constituted under the Broadcasting and Television Act 1942–60. The Australian Nacional Broadcasting Sce. prgr.s are the responsibility of the A.B.C., which is responsible to the Postmaster-General. The technical sces. in Radio are provided by the Postmaster-General's Dept., and for TV by the A.B.C. Engineering Dept.
FI.: By annual appropriation from the Commonwealth Co's budget.
ADDR.: **Head Office**: 264 Pitt St., Box 487 G.P.O., Sydney. – **Overseas Sce.**: Australia, P.O. Box 428 G, G.P.O. Melbourne. – Cable: ABCOM SYDNEY. – Te.: B. 0657.
L.P.: Chairman: Dr. J. R. Darling, CMG., O.B.E., C.M.G. Gen. Mgr.: Sir Charles Moses, C.B.E. Asst. Gen. Mgr. (Adm.): T. S. Duckmanton. Asst. Gen. Mgr. (Prgr.): C. W. Semmler. Controller Tech. Services: V. Kenna. Dir. Publicity & Concerts: Charles Buttrose. Dir. Prgr's (Overseas): P. W. R. Homfray.

THE NATIONAL BROADCASTING SERVICE
MEDIUM WAVE SERVICE: [1])=Metropolitan. [2])=Regional.

Call	kc	kW	Location	
Australian Capital Territory				
2CY[2]	850	10	Canberra	a)
2CN[1]	1540	2	Canberra	a)
New South Wales				
2CR[2]	550	10	Orange	a)
2ML[2]	560	0.2	Murwillumbah	a)
2FC[1]	610	50	Sydney	a)
2NU[2]	650	10	Tamworth	a)
2CO[2]	670	10	Albury	a)
2KP[2]	680	10	Kempsey	a)
2NR[2]	700	50	Grafton	a)
2TR[2]	720	0.2	Taree	a)
2BL[1]	740	50	Sydney	b)
2NB[2]	760	1	Broken Hill	c)
2AN[2]	760	0.2	Armidale	a)
2BA[2]	810	10	Bega	a)
2GL[2]	820	10	Glen Innes	a)
2NC[2]	1230	10	Newcastle	b)
2NA[2]	1510	10	Newcastle	a)
2LG[2]	1570	0.2	Lithgow	a)
2WN[2]	1580	2	Wollongong	a)
Victoria °)=Shortwave				
3WV[2]	580	50	Horsham	a)
3AR[1]	°620	50	Melbourne	a)
3LO[1]	°770	50	Melbourne	a)
3GI[2]	830	10	Sale	a)
3WL[2]	1570	0.2	Warnambool	a)

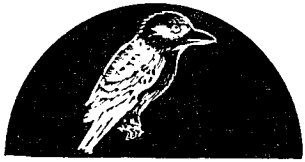
Call	kc	kW	Location	
Queensland				
4QL[2]	540	10	Longreach	a)
4QR[1]	590	10	Brisbane	b)
4AT[2]	600	0.5	Atherton	a)
4QN[2]	630	50	Townsville	a)
4QA[2]	720	2	Mackay	a)
4QS	750	10	Toowoomba	a)
4QG[1]	790	10	Brisbane	a)
4RK[2]	840	10	Rockhamtona	a)
4QB[2]	910	2	Maryborough	a)
4QY[2]	940	2	Cairns	a)
4MI[2]	1080	0.2	Mount Isa	a)
4GM[2]	1570	0.2	Gympie	a)
4SO[2]	1590	0.2	Southport	a)
South Australia				
5CK[2]	640	10	Port Pirie	c)
5CL[1]	730	50	Adelaide	c)
5AN[1]	890	10	Adelaide	d)
5PA[2]	1160	2	Penola	c)
5LN[2]	1530	0.2	Port Lincoln	c
5WM[2]	1580	0.05	Woomera Rocket Range	c)
5MG[2]	1580	0.2	Mt.Gambier	c)
5MV[2]	1590	2	Renmark	c)
Western Australia				
6WA[2]	560	50	Wagin	c)



Daily programmes in
English
French
Indonesian
Chinese
Japanese
Thai

For listeners in
Asia and Pacific Islands
British Isles and Europe
North America
Africa

Radio Australia



OVERSEAS SERVICE

Australian Broadcasting Commision
P. O. Box 428G, G. P. O.,
Melbourne, Australia

Call	kc	kW	Location	
6NM[2]	600	0.2	Northam	e)
6AL[2]	650	0.4	Albany	e)
6WF[1]	690	50	Perth	f)
6GF[2]	720	2	Kalgoorlie	e)
6WN[1]	810	10	Perth	e)
6GN[2]	830	2	Geraldton	e)
Tasmania				
7ZL[1]	600	10	Hobart	a)
7QN[2]	630	0.2	Queenstown	a)
7NT[2]	710	10	Launceston	a)
7ZR[1]	940	10	Hobart	b)

Call	kc	kW	Location	
Northern Territory				
8DR[2]	650	2	Darwin	c)
8KN[2]	670	0.05	Katherine	c)
8TC[2]	680	0.05	Tennant Creek	a)
8AL[2]	1530	0.05	Alice Springs	c)
Papua/New Guinea				
°)=Shortwave				
9PA	°1250 kc	0.5	Port Moresby	g)
9RB	810	– 2	Rabaul	g)

a) 20.00 (Sun. 20.30). – 13.30 (Sat. 14.00); b) 20.00 (Sun. 20.30) – 13.00; c) 20.30 (Sun. 21.00) – 14.00 (Sat. 14.30); d) 20.30 – 13.30; e) 22.00 (Sun. 22.30) – 15.30 (Sat 16.00); f) 22.00 (Sun. 22.30) – 15.00; g) 20.00 (Sun. 20.30) – 13.00 (Sat. 14.00).

DOMESTIC SHORT WAVE SERVICE:

ADDR.: Sydney: A.B.C., Box 487, G.P.O. – Melbourne: A.B.C., Box 1686, G.P.O. – Brisbane: A.B.C., Box 293 E, G.P.O. – Perth: A.B.C., Box 190 D, G.P.O. – Port Moresby: A.B.C., Port Moresby.
STATIONS: Sydney: VLI (2 kW). – Melbourne: VHL (10 kW) & VLR (10 kW). – Brisbane: VLQ (10 kW) & VLM (10 kW). – Perth: VLW (2 kW) & VLX (10 kW). – Port Moresby: VLT (2 kW).

Call	kc	m	h. of tr.
VLI6	6090	49.26	20.00 (Sun. 20.30)–13.30 (Sat. 14.00)
VLH11	11880	25.25	20.00 (Sun. 20.30)–23.15 (Sat. 22.45)
VLH15	15230	19.70	23.30 (Sat. 23.00)–08.15
VLH9	9680	30.99	08.30–13.30 (Sat. 14.00)
VLR6	6150	48.78	20.00 (Sun. 20.30)–22.30 (Sun. 22.15) 08.30–13.00
VLR9	9680	30.99	22.45 (Sun. 22.30)–08.30
VLQ9	9660	31.06	20.00 (Sun. 20.30–)13.30 (Sat. 14.00)
VLM4	4920	60.98	20.00 (Sun. 20.30)–13.30 (Sat. 14.00)
VLW6	6140	48.86	22.00 (Sun. 22.30)–00.00, 10.30–15.30 (Sat. 16.00)
VLW9	9610	31.22	00.15–10.15
VLX9	9610	31.22	as VLW6
VLX15	15425	19.45	00.15–10.15
VLT6	6130	48.94	20.00 (Sun. 20.30)–22.00, 07.00–13.30 (Sat. 14.00)
VLT9	9520	31.51	22.15–06.45

VLR relays 3LO, VLH relays 3AR, VLI takes N.S.W. regional prgr's, VLQ takes Queensland regional prgr's, VLM takes regional Sce. prgr's, WLW and VLX takes We. Australian regional prgr's, VLT relays 9PA.
N.: 20.00 (not Sun.), 20.30 (not Sun.), 20.45, 21.15 (Sun. 21.30), 21.45 (Sun. 22.45), 00.00 (not Sat., Sun.), 02.30, 03.30, 06.00 (not Sun.), 09.00, 11.00 (not Sat.), 13.00 (BBC & Aust.).
Wrp.: included in N., also 23.00 (Sun.), 02.15 (Sat.), 02.45 (Mo.–Fri.), 03.48 (Mo.–Fri.), 08.28 (Sun.), 08.45 (Sat.). – **T.S.:** on the h.
NOTE: Although times are in GMT, calendar days apply to the Ea. States of Aust. only. – **ANN.:** "This is the A.B.C. . . .". – **INT.-SIG.:** Three Gongs (C.F.A.). – **V.** by QSL-card and letter. Reports to **ABC** in capital city of state in which st. is located. – **PUB.:** "TV Times", R. Australia Prgr. Guide, Schools Broadcasts booklets.

OVERSEAS SERVICE – R. AUSTRALIA

ADDR.: Radio Australia, P.O. Box 428G, G.P.O., Melbourne. – **Cable:** Newscast. – **Te.:** MU 6911.
TRANSMITTERS: 4 × 100 kW, 2 × 50 kW, and a 10 kW experimental 11 metre transmitter at Shepparton; a 10 kW unit at Lyndhurst. – The high power Shepparton transmitters and the Lyndhurst outlet are capable of operating on any frequency allocated for international broadcasting in the 13, 16, 19, 25, 31, 41 and 49 m.b.

NOTE: Radio Australia in common with all international broadcasting stations has no assigned frequencies, but is allocated certain frequencies for use during definite periods.
SERVICES: I: So., So. East, So. We. Asia. – II: Ea. Asia, No. Pacific Islands. – III: So. Pacific Islands. – IV: Mid-Pacific Islands. – V: British Isles & Europe. – VI: No. America (Ea.). – VII: No. America (We.). – VIII: Africa.
Transmissions 28/10/62 – 23/3/63.

English		kc	English		kc
I:	22.14–00.15	11760, 15220	II:	11.00–12.00	15240
	00.15–01.00	15220, 17870		08.30–10.00	11810
	01.00–08.00	17870, 21540		20.58–00.15	11810, 9580
	08.00–08.28	15220, 17870	III:	06.00–09.15	9570, 11710
	08.28–09.00	15220, 17870		20.00–22.00	11840
		11880	IV:	02.28–06.45	15240
	09.00–09.30	15220, 11880		06.59–12.15	7190
	09.30–09.58	11880		20.00–22.00	15315
	09.58–13.00	11880, 9570	V:	08.15–09.15	9570, 11710
	13.00–17.30	9570, 7220	VI:	01.00–04.00	15315, 17840
				12.14–13.15	9580

Australia

English	kc
VII: 01.00–04.00	15315, 17840
VIII: 04.29–05.45	17820
French	
I: 23.15–00.15	15330, 17870
III: 23.15–00.15	17715
IV: 00.30–01.30	17715, 15180
Indonesian	
I: 06.00–08.00	15220, 17820
09.29–11.00	7220, 11740
22.14–23.15	15330, 17870

Mandarin	kc
I: 11.00–13.00	7220, 11740
Thai	
I: 13.30–14.30	9540, 11790
Japanese	
II: 10.00–11.00	9580, 11810
Vietnamese	
I: 12.29–13.30	9540, 11790

Frequencies are subject to alteration. Details of alterations are given in the transmissions concerned for three days before the effective date and in "Transmission Parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:
N.: 00.00, 01.30, 02.30, 03.30, 04.00, 05.00, 05.15, 06.00, 07.00, 08.45 (28/10–23/3), 09.00, 10.00 Dictation, 11.00, 12.00, 13.00, 14.00, 15.15, 16.15, 17.15, 20.00, 21.00, 21.45, 23.30. – **MAILBAGS:** Pacific/Asia Africa Edition: Sat. 21.15. Sun. 00.45, 04.45, 11.30, 16.45. British Isles/European Edition: Sun. 06.45[1], 08.30 (28/10–23/3). No. American Edition: Mo. 01.10, 03.00.

DX PROGRAMME: Sat. 22.00 to II; Sun. 05.30 to VIII; Sun. 09.00 to V (28/10–23/3), 07.15 (24/3–27/10); 16.00 to I, V; Mo. 02.15 to VI, VII. – **REQUEST PRGR.: Listeners Choice:** Sun. 11.15, Sat. 14.15, Sun.–Fri. 14.30. – **Music by Request:** Mo. to Sat. 23.30. – **SPORT:** Results Mo. to Sat. 08.30. Descriptions and results of major sports events in Australia Sat. 02.29–07.30 on 21540 kc to I. – **STOCK EXCHANGE:** Fri. 08.45, 15.00, Sat. 02.00. – **NATIONAL MUSIC:** Music by Australian artists and composers is broadcast regularly in all transmissions. – **PRGR. REVIEWS:** A preview is given at the start of each daily tr. and three min. before the close of tr. to the resp. areas. – **TRANSMISSION PARADE:** Fri. 20.56, 22.10, Sat. 05.27, 05.45, 14.55.

FIXED PROGRAMMES in other languages:
FRENCH: N.: 23.30, 00.45. – **N., Commentary:** Tues.–Sat. 23.42, 00.57. – **Mailbag:** Sun.: 00.00, 01.00.
INDONESIAN: N.: 09.40, 10.30, 23.45. – **Mailbag:** Sun.: 06.30, 10.00. – **"English Lessons for Indonesians":** Tues., Thurs.: 06.30, 10.00, 13.30. Sat.: 02.00, 10.00.
JAPANESE: N.: 10.30. – **Mailbag:** Sun. 10.10. – **DX-Session:** Sun. 10.45. – **Commentary:** Mo.–Fri. 10.42.
MANDARIN: N.: 11.15, 12.45. – **N., Commentary:** Mo.–Fri. 12.27. – **Mailbag:** Sun. 12.00.
THAI: N.: 14.00. – **N., Commentary:** Mo.–Fri. 14.15. – **Mailbag:** Sun. 13.45.

ANN.: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." – "You are tuned to R. Australia, the Overseas Service of the A.B.C." Freq's and wavelengths are given at frequent intervals.
TUNING AND INT.-SIG.: Musical Box playing "Waltzing Matilda" for five min. preceding prgr.s to all areas: Prgr.s commence with chimes of Elizabeth Street Post Office Clock and the laugh of the Australian bird, the Kookaburra.
V.: Listeners reports are welcomed and correct reports are confirmed by verification card.
PUB.: A prgr. booklet is available free upon application. Issued twice yearly covering April-Oct. and Nov.-March.
F.PL.: 4QR, 2CR 50 kW; 9PA 2 kW; VLT 10 kW and new Sw.-tr. VLK (10 kW) at Port Moresby (Dec. 63).

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS

Associated in a body called: **The Australian Federation of Commercial Broadcasting Stations: Addr.:** 47, York Street, Sydney. – **Te.:** 29-1738. **Cable:** AFOBS. – **L.P.:** Federal Dir.: M. Baker. Also Promotion and Research Organization "Australian Radio Advertising Bureau", 47, York Str., Sydney. – **Te.:** 29-2623. – **L.P.:** Dir.: B. J. Dargaville. – **The Australian Broadcasting Control Board** is a Go. Authority responsible for the planning of the broadcasting sce.'s ensuring that technical equipment and prgr. sce.'s are of adequate standards and determining power, frequency and periods of operation of stations. **Addr.:** 373 Elizabeth Str., Melbourne, C.1. **Cable:** Conboard, Melbourne. **Te.:** 30-432. – **L.P.:** Chairman: R. G. Osborne. Secr.: J. Donovan. Dir. Tec.: D. McDonald. Dir. Prgr.: D. A. Jose.
2CH is controlled by the New South Wales Council of Churches, 2SM by the Roman Catholic Church, 5KA and 5AU by the Methodist Church.
Abbreviations: Amalg=Amalgamated, Ass=Associated, Me=Melbourne, B. Casters=Broadcasters, Transc=Transcontinental.

NEW SOUTH WALES: Call letter: 2–––.

Call	kc	kW	D.Prgr.
1) BH	660	0.2	20.00–13.00
2) KA	780	2	20.00–12.35
3) GB	870	5	24 hours
4) LM	900	2/1	20.00–12 30
5) XL	920	2/1	20.00–12.00
6) UE	950	5	24 hours
7) KM	980	2	20.00–12.30
8) GZ	990	2	20.00–13.30
9) KY	1020	5	19.30–14.00
10) CA	1050	2	20.00–13.00
11) RG	1070	2/1	20.30–12.30
12) MO	1080	1	20.00–12.30
13) UW	1110	5	24 hours
14) AD	1130	2/1	20.00–12.30
15) HD	1140	2	19.30–14.00
16) WG	1150	2	20.00–13.00
17) CH	1170	5	19.30–14.00
18) NZ	1190	2	19.30–13.00
19) GF	1210	2/1	20.00–13.00
20) DU	1250	2	19.30–13.35
21) SM	1270	5	19.30–13.00
22) TM	1290	2	20.00–13.30
23) LF	1340	2	20.00–13.00
24) NX	1360	2	19.30–13.00
25) LT	1370	0.5	20.00–12.30
26) GN	1380	2	20.00–13.00
27) PK	1400	2	20.00–13.00
28) KO	1410	2	24 hours
29) WL	1430	2	19.30–13.30
30) MW	1440	2/1	20.00–13.00
31) MG	1450	1	20.00–13.00
24) NM	1460	0.5	19.30–13.00
32) BE	1480	1	21.00–12.00
33) AY	1490	2	20.00–13.30
34) BS	1500	2	20.00–13.30
35) QN	1520	2	20.30–12.30
36) VM	1530	2/0.5	20.00–13.00
37) RE	1560	2/0.5	20.00–12.30

1) **R. Silver City,** 273 Argent Str., Broken Hill. – 2) **Transc. Broadc. Corpo.,** 283 Elizabeth Str., Sydney. (2KA Katoomba). – 3) **Broadc. St. 2GB,** 136 Phillip Str., Sydney. – V. by QSL-card.
4) **Richmond River B. Casters,** 11 Molesworth Str., Lismore. –
5) **Cooma B. Casters,** 132 Sharp Str., Cooma. – 6) **R. 2UE,** 29 Bligh Str., Sydney – **L.P.:** Gen. Mgr.: A. D. Faulkner. – V. by QSL-card.
7) **R. Kempsey,** 283 Elizabeth Str., Sydney (2KM Kempsey). –
8) **Country Broadc. Services,** Hosking House, Hosking Place, Sydney (2GZ Orange). – 9) **2KY Broadc. St.,** 32 Orwell Str., Potts Point.
10) **Canberra B. Casters,** 64 Northbourne Av., Canberra City. – 11) **2RG B. Casters,** Ulong Str., Griffith. – 12) **2MO Gunnedah Ltd.,** 5 Rodney Str., Gunnedah. – 13) **Commonwealth Broadc. Corop.,** 365 Kent Str., Sydney.
14) **New England B. Casters,** 123 Rusden Str., Armidale. – 15) **Airsales Broadc. Co.,** Maitland Rd., Sandgate (2HD Newcastle). – 16) **Riverina B. Casters,** 16 Fitzmaurice Str., Wagga.
17) **N.S.W. Council of Churches Service,** 188 Forbes Str., Darlinghurst (2NZ Inverell) – **L.P.:** Mgr.: H. R. Huntley. – **D.Prgr.: Greek:** Mo., Thurs., Fri.: 08.45. **Italian:** Tues., Wed.: 08.45. – **ANN.:** "This is 2CH Sydney's Music Station" or "This is 2CH The Happy Sound in Radio". – V. by letter. Re. to 47 York Str., Sydney.
18) **Northern B. Casters,** Hosking House, Hosking Place, Sydney.
19) **Grafton Broadc. Co.,** 47 York Str., Sydney (2GF Grafton).
20) **Western B. Casters,** 71 Macquiarie Str., Dubbo. – 21) **Broadc. St. 2SM,** 257 Clarence Str., Sydney. – V. by QSL-card. – 22) **Tamworth R. Development Co.,** R. Centre, Tamworth. – 23) **Young B. Casters,** 24 Lovell Str., Young.
24) **Hunters B. Casters,** 56 Hunter Str., Newcastle (2NX Bolwarra, 2NM Muswellbrook). – **L.P.:** Gen. Mgr.: K. C. Robinson. – V. by QSL-card. Re. to Box 680 P.O., Newcastle.
25) **Lithgow B. Casters,** Gr. Western Highway, So. Bowenfells (2LT Lithgow). – 26) **Goulburn Broadc. Co.,** 47 York Str., Sydney (2GN Goulburn). – 27) **Parkes Broadc. Co.,** 307 Clarinda Str., Parkes. – 28) **R. 2KO,** 110 Hunter Str., Newcastle. – **L.P.:** Gen. Mgr.: G. M. Hood. – V. by QSL-card.
29) **Wollongong Broadc.,** Edward Str., Wollongong. – 30) **Tweed R. and Broadc. Co.,** Murwillumbah. – 31) **Mudgee Broadc. Co.,** Wellington Rd., Mudgee. – 32) **R. 2BE,** Auckland Str., Bega.
33) **Amalgamated Wireless Ltd.,** 47 York Str., Sydney (2CH Sydney, 2AY Albury, 2GF Grafton, 2NG Goulburn, 3GO Bendigo, 4CA Cairns, 4TO Townsville, 4WK Warwick). – 34) **Bathurst B. Casters,** 109 George Str., Bathurst.
35) **Southern Riverina B. Casters,** 368 George Str., Deniliquin. – **L.P.:** Mgr.: P. N. Charley. – V. by QSL-card. Re. to P.O. Box 312, Deniliquin. – 36) **Moree Broadc. and Development Co.,** 93 Balo Str., Moree. – 37) **Manning Valley Broadc.,** Pulteney Str., Taree.

VICTORIA: Call letter: 3–––.

Call	kc	kW	D.Prgr.
38) UL	880	2/1	19.30–13.30
39) UZ	930	5	19.30–14.00
33) BO	960	2/1	19.30–14.00
40) HA	1000	2	20.00–13.30
41) DB	1030	5	19.30–15.00
41) LK	1090	2	19.30–13.30
42) CS	1130	2/1	20.00–12.30
43) KZ	1180	5	20.00–13.30
38) YB	1210	2/1	20.00–13.30
44) TR	1240	2	19.00–14.00
38) SR	1260	2	19.30–13.30
45) AW	1280	5	18.30–15.00
46) BA	1320	2/1	20.00–14.00
47) SH	1330	2	20.00–13.00
48) GL	1350	2/1	19.30–13.00
49) XY	1420	5	24 hours
50) CV	1440	2/1	20.00–13.00
51) MA	1470	2	20.30–12.30
52) AK	1500	2	20.00–08.00
53) NE	1600	2/1	19.30–14.00

38) **Associated Broadc. Services,** 290 Latrobe Str., Melbourne C 1 (3UL Warragul, 3YB Warrnambool, 3SR Shepparton). – 39) **Nilsen's Broadc. Service,** 45–47 Bourke Str., Melbourne C 1.
40) **Western Province R.,** 239, Collins Str., Melbourne C 1 (3HA Hamilton). – 41) **The Herald and Weekly Times Ltd.,** 36 Flinders Str., Melbourne C 1 (3DB Melbourne, 3LK Lubeck). – **L.P.:** Dir. Gen.: J. Williams. – V. by QSL-card. – 42) **Colac Broadc. Co.,** 24 Murray Str., Colac. – **L.P.:** Mgr.: C. S. Faulkner. Dir. Tec.: C. A. Culliman. – V. by QSL-card.
43) **3KZ Broadcasting Co.,** 64 Elizabeth Str., Melbourne. – **L.P.:** Dir. Gen.: S. Morgan. – **D.Prgr.: German:** Sat. 07.30–08.00. **Italian:** Fri. 09.45–10.30. Sun. 10.00–11.00, 11.30–12.30. – V. by QSL-card.

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44) **Latrobe Valley & Gippsland B. Casters,** 239 Collins Str., Melbourne C.1 (3TR Sale). – 45) **3AW Broadc. Co.,** 382 Latrobe Str., Melbourne C 1. – **L.P.:** Gen. Mgr.: N. F. E. Wright. – 46) **Ballarat B. Casters,** 56 Lydiard Str., Ballarat.
47) **Central Murray B. Casters,** 239 Collins Str., Melbourne C 1 (3SH Swan Hill). – **L.P.:** Dir. Gen.: N. F. Dixon. – **V.** by QSL-card. Re. to Box 330, Swan Hill.
48) **Geelong B. Casters,** 4 James Str., Geelong. – 49) **St. 3XY Ltd.,** 222 Faraday Str., Carlton. – 50) **Central Victoria B. Casters,** 239 Collins Str., Melbourne C 1 (3CV Maryborough). – 51) **Sunraysia B. Casters,** 22 Deakin Ave., Mildura.
52) **Melbourne B. Casters,** 22 Bendigo Str., Richmond (3AK Melbourne). – 53) **Wangaratta Broadc. Co.,** Templeton Str., Wangaratta.

QUEENSLAND: Call letter: 4

Call	kc	kW	D. Prgr.	Call	kc	kW	D. Prgr.
54) KQ	690	2/1	24 hours	63) BC	1120	2	24 hours
33) TO	780	2/1	19.30–13.30	64) MB	1160	2	19.30–13.00
55) GR	860	2	19.30–13.00	65) AK	1220	2	19.00–13.00
56) WK	880	2	20.00–12.30	65) BK	1300	2	
57) VL	920	2/1	20.30–12.30	66) BU	1330	2	20.00–12.30
58) AY	960	2/1	19.00–13.30	67) GY	1350	2/0.5	20.00–12.15
59) RO	1000	2	19.30–13.00	68) LM	1370	0.5	20.30–00.40
33) CA	1010	2/1	20.00–13.00				07.30–12.00
60) IP	1010	1	20.00–12.30	69) MK	1380	2	19.30–12.30
61) SB	1060	2		70) BH	1390	2	19.00–13.30
62) LG	1100	2	20.00–04.30	71) ZR	1480	2/1	20.30–12.30
			07.00–12.00				

54) **Labor Broadc. St.,** Cnr. Elizabeth and Edward Str., Brisbane.
55) **Gold R. Service,** 53 Ruthven Str., Brisbane (4GR Toowoomba).
56) **Warwick Broadc. Co.,** Palmerin Str., Warwick. – 57) **Charleville Broadc. Co.,** R. House, Charleville. – 58) **Ayr. B. Casters,** 386 Flinders Str., Townsville. (4AY Ayr). – 59) **Rockhampton Broadc. Co.,** East Str., Rock Hampton.
60) **Ipswich Broadc. Co.,** 233 Brisbane Str., Ipswich. – 61) **South Burnett Broadc. Co.,** 26 Alford Str., Kingaroy.
62) **Central Queensland Broadc. Corpo.,** G.P.O. Box 1150 P., Brisbane. **L.P.:** Gen. Mgr.: F. L. Nathan. – **V.** by QSL-card.
63) **Commonwealth Broadc. Corpo.,** Wharf and Adelaide Str., Brisbane. **L.P.:** Gen. Mgr.: L. C. Hynes. – 64) **Maryborough Broadc. Co.,** Brisbane. (4MB Maryborough). – 65) **Queensland Newspapers Ltd.,** 288–298 Queens Str., Brisbane (4AK Oakey, 4BK Brisbane). – 66) **Bundaberg B. Casters,** 55 Woongorra Str., Bundaberg. – 67) **Gympie Broadc. Co.,** 98 Mary Str., Gympie.
68) **North Queensland Broadc. Corpo.,** Regent House, Mt. Isa. – 69) **Mackay Broadc. Service,** P.O. Box 183, Mackay. – **L.P.:** Gen. Mgr.: M. E. Low. – **V.** by QSL-card. – 70) **Broadcasters Aust. Lfd.,** 43 Adelaide Str., Brisbane. – 71) **Maranoa Broadc. Co.,** McDowall Str., Roma.

SOUTH AUSTRALIA: Call letter: 5

Call	kc	kW	D. Prgr.	Call	kc	kW	D. Prgr.
72) RM	800	2	20.15–13.30	76) AD	1310	2	20.00–14.30
73) DN	970	2	20.00–13.45	77) SE	1370	0.5	20.00–13.45
74) PI	1040	2	20.00–13.45	78) AU	1450	2	20.15–13.30
75) KA	1200	2	24 hours	79) MU	1460	0.5	20.00–13.45

72) **River Murray B. Casters,** 43 Franklin Str., Adelaide. (5RM Renmark). – 73) **Hume B. Casters,** 201 Tynte Str., No. Adelaide. – 74) **Midlands Broadc. Services,** 121 King William Str., Adelaide (5PI Crystal Brook). – 75) **5KA Broadc. Co.,** 43 Franklin Str., Adelaide.
76) **Advertiser Newspapers,** 121 King William Str., Adelaide. – 77) **So. Eastern Broadc. Co.,** 121 King William Str., Adelaide (5SE Mt. Gambier). – 78) **5AU B. Casters,** 43 Franklin Str., Adelaide (5AU Port Augusta). – 79) **Murray Bridge Broadc. Co.,** 121 King William Str., Adelaide (5MU Murray Bridge).

WESTERN AUSTRALIA: Call letter: 6

Call	kc	kW	D. Prgr.	Call	kc	kW	D. Prgr.
80) VA	780	2	22.30–06.00	81) GE	1010	2	22.30–05.30
			08.00–14.00				09.00–14.30
81) KG	860	2	22.30–06.00	83) WB	1070	2	22.00–06.00
			08.00–14.00				09.00–14.30
82) PR	880	2	21.30–15.00	83) IX	1080	2	21.34–16.00
83) BY	900	2	22.00–14.30	83) MD	1100	2	22.00–06.00
84) NA	920	2	22.00–17.00				09.00–14.30
82) TZ	960	2	22.00–15.00	82) CI	1130	2	22.00–06.30
81) AM	980	2	22.00–15.00				10.00–15.00
81) PM	1000	2	22.00–16.00	84) KY	1210	2	21.30–18.00

80) **Albany B. Casters,** P.O. Box 182, Albany. – 81) **Whitfords Broadc. Network,** P.O. Box 187D, Perth. – 82) **Nicholsons Ltd.,** 86 Barrack Str., Perth (6PR Perth, 6TZ Bunbury 6CI Collie).
83) **Western Australia B. Casters,** P.O. Box P1220, G.P.O., Perth. (6BY Bridgetown, 6WB Katanning, 6IX Perth, 6MD Merredin). – 84) **Westland Broadc. Co.,** 17–19 James Str., Perth (NA Narrogin, 6KY Perth).

TASMANIA: Call letter: 7

Call	kc	kW	D. Prgr.	Call	kc	kW	D. Prgr.
85) SD	540	2	21.00–03.00	87) QT	720	0.5	21.00–03.00
			05.30–12.15				06.00–12.30
86) BU	560	0.5	20.30–12.30	88) HO	860	2	19.00–14.00

Call	kc	kW	D. Prgr.	Call	kc	kW	D. Prgr.
89) AD	900	0.5	21.00–13.00	91) HT	1080	2	19.30–13.30
90) EX	1010	2	20.00–13.00	92) LA	1100	2	20.00–13.00

85) **North East Tasmanian R. B. Casters,** P.O. Box 109, Scottsdale. **L.P.:** Mgr. B. Scetrine. – **V.** by QSL-card.
86) **Burnie Broadc. Service,** P.O. Box 120, Burnie. – 87) **West Coast B. Casters,** P.O. Box 315, Queenstown. – 88) **Comm. B. Casters,** 52 Newtown Rd., Hobart. – **L.P.:** Mgr. A. B. Brown. – **V.** by QSL-card **Northern Tasmania B. Casters,** P.O. Box 18, Devonport. – 90) **7EX Ltd.,** 74 Charles Str., Launceston.
91) **Metropolitan B. Casters,** GPO. Box 572F, Hobart. – 92) **Findlay and Wills B. Casters,** P.O. Box 635G, Launceston.

NORTHERN TERRITORY: Call letter: 8

94) DN	1240 kc	2 kW	21.00–13.00

Darwin B. Casters, 16 Smith Str., Darwin.

CHRISTMAS ISLAND (British)

L.T.: GMT÷9 h – **Pr. L.:** English.
CHRISTMAS ISLAND BROADCASTING SERVICE (Pr.)
Owned and operated by RAF. The station is run entirely by voluntary help. CIBS transmits to British Forces in the Central Pacific and is run by members of all three of H. M. Forces, in conjunction with the Forces Entertainment Sce. and the Transcription Sce. of the BBC.
F.I.: RAF funds (Go). – **ADDR.:** R.A.F. Central Pacific, B.F.P.O. 170 – **L.P.:** St. Dir.: M. J. Porter. Mgr.: J. Reynolds. Dir. Tec.: Talboys. – **STATION:** 1450 kc 207 m 0.1 kW.
HOME SCE. in English: Mo-Fri 03.00–08.00, Sat 21.00–09.00. Sun 21.30–08.00 – **N.:** 06.00 – **PUB.:** Prgr. schedule (fortnightly).

COOK ISLANDS (N.Z. Territory)

L.T.: GMT÷10½ h – **Pr. L.:** English, Maori.
RADIO COOK ISLANDS (Go.)
ADDR.: Rarotonga. **Te.:** 24 – **L.P.:** Officer in charge: P. F. Henderson. Dir. Tec.: S. Kingan.
STATIONS: mw.: 0.15 kW, sw.=0.25 kW.

Call	kc	m	Call	kc	m	Call	kc	m
ZK1ZA	820	365.9	ZK5	5045	59.46	ZK4	11760	25.51
ZK6	3265	91.87	ZK3	9695	30.94			

HOME SCE. in English, Maori:
Mo, Tues, Thurs, Fri 22.45–23.15 on 820/9695 kc; Tues, Thurs, Sat 04.30–08.00 (Thurs 08.30) on 820/5045 kc. **N. in English:** 22.45, 04.32 07.30 (relay R. New Zealand) 07.40 (Tues), 08.15 (Thurs), 07.50 (Sat). **N. in Maori:** 22.55, 05.30.
ANN.: "This is ZK1ZA Radio Rarotonga" – **INT.-SIG.:** Cook Islands Drum Beats – **V.** by QSL-card. Rp.

FIJI (British)

L.T.: GMT+12 h – **Pr. L.:** Fijian, Hindustani.
FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm., 50% cultural) – FI.: By license payments and adv. – **ADDR.:** Broadcasting House, P.O. Box 334, Suva. **Cable:** Broadcom. **Te.:** 2621 – **L.P.:** Chairman: J. M. Hedstrom, LLB. Mgr.: J. S. W. Stannage. Dir. Prgr.: G. H. King. Dir. Tec.: T. C. Agar.
HOME SCE.: W 18.00–10.30(Sat 11.00). Sun 19.00–10.30.
VRH2 Suva 840 kc 357 m 0.4 kW – VRH3 Lautoka 890 kc 337.1 m 2.5 kW – VRH Suva 930 kc 322 m 2 kW – VRH4 Suva 3980 kc 75.38 m 0.5 kW – VRH6 4756 kc 63.08 m 10 kW – VRH8 3286 kc 91.29 m 10 kW – VRH5 4785 kc 62.70 m – VRH7 3935 kc 76.24 m. Simultaneously tr. in **English, Fijian, Hindustani – English: N.:** D: 18.45*, 19.00 (BBC), 19.45, 20.00 (BBC), 21.15 (Sun BBC), 24.00 (Sun ABC), 01.15 (NZBS), 01.30*, 07.00 (BBC)* – **Wrp.:** After N.*, 00.30, 09.15 (Sun 09.00) – **Fijian:** Fijian Party Time: 3rd Sat of the month at 09.45–11.00 on 840/3980 kc.
ANN.: "This is the Fiji Broadc. Commission" – **INT.-SIG.:** Beat of Fijian Lali (Log Drum) – **V.** by QSL-card, but not sought.

GILBERT and ELLICE ISLANDS (British Colony)

L.T.: GMT+12 h. – **Pr. L.:** English, Gilbertese, Ellice.
GILBERT AND ELLICE ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: Information Office, Tarawa. – **Cable:** Information.
L.P.: Inf. Officer: R. K. Uatioa. Dir. Tec.: C. W. Adams.
STATIONS: VTW 844 kc 355 m 0.05 kW. – VTW-2 6050 kc 49.59 m 2 kW.
HOME SCE.: Gilbertese and Ellice Wed., Fri. 05.00–06.00, Sun. 03.30–05.00. **English** Fri. 07.30–10.30. – **N.: Gilbertese, Ellice** Wed., Fri. 05.30, Sun. 04.00. – **English** 07.40. – **Wrp.:** with English N.
ANN.: E. "Good evening (afternoon) listeners, this is the Voice of Tarawa". Gilbertese: "Kam na bane ni mauritani ka kauongo n te tairiki aio boni banan Tarawa". Ellice: Tolofa katoa ite afiafinei menei ko sikungaleo o Tarawa". – **INT.-SIG.:** Five note gong. – **V.** by QSL-card. – **F.PL.:** Extension of prgrs.

HAWAII (U. S. State)

L.T.: GMT+10 h. – **Pr. L.**: English, Japanese, Filipino, Chinese, Okinawan.

PRIVATE STATIONS (Comm.)

Abbrev.: E=English, J=Japanese, F=Filipino, C=Chinese, O=Okinawan, S=Samoan, AI=All Island.

	Call	kc	kW	Network		Call	kc	kW	Network
1)	KMVI	550	1	NBC, AI	2)	KHBC	970	1	CBS
3)	KGMB	590	5	CBS	10)	KTRG	990	1	Indep.
3)	KORL	650	10	Indep.	11)	KHVH	1040	5	Kaiser
4)	KULA	690	10	Indep.	12)	KHAI	1090	10	Indep.
5)	KGU	760	10	NBC	13)	KIPA	1110	1	AI
6)	KIKI	830	0.25	Indep.	14)	KOHO	1170	1	Indep.
7)	KIMO	850	1	Kaiser	15)	KLEI	1240	1	Indep.
8)	KAIM	870	1	Indep.	16)	KNDI	1270	5	Indep.
9)	KAHU	920	1	Indep.	17)	KPOI	1380	5	Indep.
					18)	KTOH	1490	0.25	NBC

1) **Maui Publishing Co.**, P.O. Box 374 Wailuku, Maui. – **L.P.**: St. Mgr.: R. E. Mawson. – **D. Prgr.**: 15.00–09.00 in E, J, F.

2) **Hawaiian Broadc. System**, P.O. Box 581, Honolulu 14. – **L.P.**: Gen. Mgr.: J. L. Herold. – **D. Prgr.**: KGMB 15.30–10.00 in E, KHBC: 15.30–10.00 in E, J.

3) **R. Hawaii, Inc.**, 575 Kamoku, Honolulu. – **L.P.**: Gen. Mgr.: H. Davis. – **D. Prgr.**: 24 h. in E, F.

4) **KULA Broadc. Co.**, P.O. Box 1479, Honolulu. – **L.P.**: Gen. Mgr.: C. Stuart III. – **D. Prgr.**: 24 h. in E.

5) **Advertiser Publishing Co.**, P.O. Box 3110, Honolulu 2. – **L.P.**: Gen. Mgr. W. O. Paine. – **D. Prgr.**: 14.00–11.00 in E, J, F.

6) **Kiki Ltd.**, 331 Kamani St., Honolulu 13. – **L.P.**: Gen. Mgr.: A. J. Rossi. – **D. Prgr.**: 24 h. in E, C, F, J, O.

7) **Island Broadc. Co.**, P.O. Box 1497, Hilo. – **L.P.**: Gen. Mgr. J. E. Jaeger. – **D. Prgr.**: 15.00–10.00 in E, J, F.

8) **Christian Broadc. Assoc.**, P.O. Box 375, Honolulu. – **L.P.**: Gen Mgr.: C. Keur. – **D. Prgr.**: 14.30–09.30 in E, F, C, J.

9) **Rural Broadc. Co.**, P.O. Box 1007, Waipahu, Oahu. – **L.P.**: Gen. Mgr.: H. E. Chu. – **D. Prgr.**: 15.00–09.30 in E, C, F, J, S.

10) **Ala Moana Broadc. Co.**, 2227 Kalakaua Ave., Honolulu 14. – **L.P.**: Gen. Mgr.: P. W. Carle. – **D. Prgr.**: 15.30–08.00 in E, J.

11) **Kaiser Hawaiian Village Radio, Inc.**, 1290 Ala Moana Blvd., Honolulu 14. – **L.P.**: Gen. Mgr.: J. Lerrao. – **D. Prgr.**: 24 h. in E. – V. by letter Rp.

12) **R. St. KHAI**, Honolulu. – **L.P.**: Gen. Mgr.: R. Sherman. – **D. Prgr.**: 24 h. in E.

13) **Big Island Broadc. Co.**, P.O. Box 1602 Hilo. – **L.P.**: Gen. Mgr.: R. W. Jaderstrom. – **D. Prgr.**: 15.00–10.00 in E, J, F.

14) **Cosmopolitan Broad. Co.**, 1140 A, 12th Ave., Honolulu 16. – **L.P.**: Dir. Gen.: H. Sato. – **D. Prgr.**: 15.00–09.00 in J. – V. by QSL-card. Rp.

15) **Oahu Broadc. Co.**, Kailua, Oahu. – **L.P.**: Gen. Mgr.: J. Irvin. – **D. Prgr.**: 15.30–10.00 in E.

16) **R. St. KNDI**, P.O. Box 1516, Honolulu. – **L.P.**: Gen. Mgr.: J. T. Ownby. – **D. Prgr.**: 16.00–10.00 in E.

17) **KPOI Broadc. Co.**, 1701 Ala Wai Blvd. Honolulu 15. – **L.P.**: Gen. Mgr.: F. Hollinger. – **D. Prgr.**: 24 h. in E.

18) **Garden Island Publishing Co.**, Box 1748 Lihue, Kauai. – **L.P.**: Gen. Mgr.: C. J. Fern. – **D. Prgr.**: 15.30–08.30 in E, J, F.

MARIANAS ISLANDS (U.S. Territory)

L.T.: GMT+10 h – **Pr.L.**: English, Chamorro, Philippine dialects.

RADIO GUAM (Pr. Comm.)

FI.: By adv. – **ADDR.**: P.O. Box 368 Agana, Guam. **Cable**: Kuam. **Te.**: 7961 – **L.P.**: Press & Gen. Mgr.: P. Berg, Resident Mgr.: R. A. Jordan.

STATION: KUAM 610 kc 1 kW.

HOME SCE. in English: 20.00(Sun 21.00)–14.00(Sat 15.00) – **N.**: Every h on the h.

ANN.: "Kuam Agana, Guam" – **INT.-SIG.**: Voice & Jingle Form (Orchestra & Voices) – V. by letter – **PUB.**: Prgr.schedule free on request. Write to: Resident Mgr. P.O. Box 368, Agana, Guam, M.I.

ARMED FORCES RADIO & TV SERVICE: see USA.

MARSHALL ISLANDS (U.S. Trust Terr.)

L.T.: GMT+12 h – L.: English.

ARMED FORCES RADIO & TV SCE. (Eniwetok and Kwajalein): see USA.

NEW CALEDONIA (French)

L.T.: GMT+11 h – **Pr. L.**: French.

RADIO NOUMEA (Go. – R. diff. Télévision Française)

AD.: 19.00–20.00, 00.00–01.00, 01.20–01.25, 07.45–08.00.

ADDR.: B.P. 327, Noumea. **Cable**: Radio Noumea. **Te.**: 2856. **L.P.**: Dr. Le Leizour. Dir. Tec.: Th. Siret.

STATIONS: (System TRT).

1400 kc 214 m 1 kW – 3355 kc 89.45 m 4 kW – 7170 kc 41.48 m 4 kW.

HOME SERVICE in French, Bichelamar (Pidgin), Wallisian: W 19.00–20.00, 00.00–02.00, 07.00–10.30, Sun 21.00–02.00, 07.00–10.30.

N.: 19.30, 19.55, 01.00, 08.00, 10.25 – **Wrp.**: D 19.30, 00.00, 01.00, 01.15, 02.00, 08.00, 10.00 – **L.L.: English**: Mo, Wed 07.00, Sat 07.15. **Bichelamar**: Thurs 07.15–07.30. **Wallisian**: Fri 07.00–07.15.

ANN.: "Ici Noumeá, Radiodiffusion Télévision Française" – **INT.-SIG.**: Call of the cagou bird – V. by QSL-card – **F.PL.**: mw. 8 kW.

PUB.: Prgr. sched. weekly.

NEW GUINEA (Australian Territory)

L.T : GMT+10 h – **Pr. L.**: English, Pidgin, Tolai.

RADIO RABAUL (Go.)

ADDR.: Administration Broadc. St., P.O. Box 71, Rabaul, Territory of Papua. **Cable**: "Adcast Rabaul". **Te.**: 2700 – **L.P.**: St. Mgr.: H. H. Leigh. Dir. Tec.: W. Murphy.

STATION (System: AWA):

VL9BR 4840 kc 61.98 m 0.25 kW.

HOME SCE.: D 07.30–11.00. **N.**: **in Tolai** 08.10, 10.00. **N. in Pidgin**: 10.30 – **Wrp.**: 08.50.

ANN.: E: "This is R. Rabaul Station VL9BR" Tolai: "Go R. Rabaul Station VL9BR" Pidgin: "Dispela em R. Rabaul Station VL9BR" – V. by QSL-card – **F.PL.**: New st. at Newark January 63 – **PUB.**: Prgr. schedule.

NEW HEBRIDES

L.T.: GMT+11 h – **Pr.L.**: English, French, Pidgin-English.

RADIO PORT VILA (Go.)

ADDR.: Anglo-French Condominium Administration, Port Vila. New Hebrides, South Pacific – **L.P.**: St. Dir.: R. A. Robinson.

STATION: 3277 kc 91.55 m 1 kW

HOME SCE. in English, French, Pidgin-English: D 07.00–11.00.

V. by letter – **F.PL.**: Possible use of 3955 or 4980 kc if service required at 01.00–07.00.

NEW ZEALAND

L.T.: GMT+12 h – **Pr. L.**: English, Maori.

NEW ZEALAND BROADCASTING CORPORATION

(Statutory Public Body).

FI.: By license payments and adv. – **AD.**: St.s other than YA, YC and YZ St.s broadc. adv. D exc. Sun.

ADDR.: P.O. Box 98, Wellington. **Cable**: Broadserv. **Te.**: 70-999. **L.P.**: Dir. Gen.: G. H. Stringer. Dir. of Engineering W. L. Harrison. Dir. Sound Broadc. J. H. Hall. Dir. Television: N. R. Palmer.

HOME SERVICE in English: *)Private st. **)exc. Sun 11.30–17.00.

	Call	kc	m	kW	h of tr.
Wellington	2YA	570	526	100	24 h**
Alexandra	4YX	640	468	2	18.00–11.20
Wellington	2YC	660	455	60	05.00–11.00
Christchurch	3YA	690	434	20	18.00–11.20
Invercargill	4YZ	720	416	5	19.00–11.20
Auckland	1YA	760	395	20	18.00–11.20
Dunedin	4YA	780	384	20	18.00–11.20
Rotorua	1YZ	800	375	10	19.00–10.30
Invercargill	4ZA	820	366	10	18.00–12.00
Masterton	2XB	840	357	2	18.00–03.30 / 05.30–10.30
Napier	2YZ	860	349	5	19.00–10.30
Auckland	1YC	880	341	10	05.00–11.00
Dunedin	4YC	900	333	10	05.00–11.00
Greymouth	3YZ	920	326	10	18.00–10.30
Palmerston Nth.	2ZA	940	319	2	18.00–12.00
Christchurch	3YC	960	312	10	05.00–11.00
Whangarei	1XN	970	309	2	18.00–10.30
Wellington	2ZB	980	306	20	18.00–12.00
Tauranga	1ZD	1000	300	10	05.30–10.30
Gisborne	2XG	1010	297	2	18.00–10.30
Dunedin	4ZB	1040	288	10	18.00–12.00
Auckland	1ZB	1070	280	10	18.00–12.00
Christchurch	3ZB	1100	273	10	18.00–12.00
Wellington	2YD	1130	265	2	07.00–10.00
Hamilton	1YW	1140	262	2	18.00–11.20
Timaru	3XC	1160	258	2	18.00–10.30
Gisborne	2XM*)	1180	254	0.09	07.00–10.00
Wanganui	2XA	1200	250	2	18.00–10.30
Kaikohe	1XE	1220	245	2	18.00–10.30
Auckland	1YD	1250	240	2	05.00–10.00
Napier	2ZC	1280	234	2	18.00–12.00
Hamilton	1XH	1310	229	2	18.00–12.00

	Call	kc	m	kW	h of tr.
Nelson	2XN	1340	224	2	18.00–10.30
New Plymouth	2XP	1370	219	2	18.00–10.30
Wellington	2YX	1400	214	1	07.30–11.00
Dunedin	4XD*)	1430	210	0.06	06.00–10.30
Kaitaia	1XA	1440	208	2	18.00–10.30
Westport	3YW	1460	205	2	18.00–10.30
Rotorua	1ZC	1520	197	0.75	18.00–22.30 05.30–10.30

N.: W 18.00 (BBC), 19.00, 20.00 (BBC), 20.30, 21.00, 00.30, 01.15, 06.00 (BBC), 07.00, 09.00, 11.00 (BBC), 11.30. Sun 18.00 (BBC), 19.00 (BBC), 20.00 (BBC), 21.00, 00.30, 01.15, 06.00 (BBC), 09.00, 11.00 (BBC).

N. in Maori: Sun 06.00 – **Wrp.:** D 19.15, 00.30, 09.00 – **Rel.:** W 22.00. Sun 23.00, 07.00 – **L.L.: French:** Mo 02.45 (Feb–Aug) – **Quiz Prgr's:** 07.00 (Mo, Wed, Fri), 08.00 (W exc. Fri), 08.30 (Sat).

FOREIGN SERVICE: Radio New Zealand.
ADDR.: Dir. Gen.: R. New Zealand, P.O. Box 2396, Wellington. **Cable:** Natbroadcast. **Te.:** 48-200 – **L.P.:** Distr. Mgr.: J. L. Hartstronge. Dir. Tec.: A. S. Chisholm. Prgr. Officer: H. W. Taylor-Smith.

STATIONS: 7.5 kW.

Call	kc	m	Call	kc	m	Call	kc	m
ZL20	6020	49.83	ZL2	9540	31.45	ZL21	15110	19.86
ZL7	6080	49.34	ZL3	11780	25.47	ZL4	15280	19.63

Two frequencies are used simultaneously, and as the prgr.sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions.
To Pacific Islands: 17.00–19.45. Home Sce. prgr. on 6080, 9540, 11780 kc, 20.00–05.45 Home Sce. prgr. on 15280 kc, 06.00–08.45 Special prgr. on 6080, 9540, 11780 kc – **To Australia:** 20.00–22.30 Home Sce. prgr. on 9540, 11780 kc, 22.45–05.45 Home Sce. prgr. on 15110 kc, 09.00–11.45 Special prgr. on 6080, 9540, 11780 kc – **"Calling Antarctica"** (a prgr. of news, sporting Review and "Family Corner" directed to N.Z. scientific personnel in the Ross Dependency): Sun 08.15–08.45 on 6020 kc – **"Calling Samoa"** (in Samoan): Tues 07.00–07.15 – **"Calling The Cook Islands and Niue"** (in Rarotongan): Wed 07.45–08.00, Sat 08.00–08.15 (repeat).
New Zealand News: D 00.45, 07.30, 10.00.
Rel.: W (in N.Z.) 22.00. Sun (in N.Z.) 23.00 – **DX Prgr.** 1st Wed in month: 06.40, 10.30. Also Sun following the 1st Wed at 00.40 – **Mbg:** 07.00, 09.45 – **Prgr. Previews:** 21.30, 00.50, 06.10, 07.40, 08.40, 08.57, 10.10, 11.40.

ANN.: "This is New Zealand Calling" – **INT.-SIG.:** Call of the N.Z. Bell bird (at 5 second intervals) – **V.** by QSL-card (sea mail) Re. to Distr. Mgr., P.O. Box 2396, Wellington – **PUB.:** "The N.Z. Listener" (Home Sce.) 39 sh. (N.Z.) yearly. R.N.Z. Prgr.sched. (free to overseas listeners on request).

NORFOLK ISLANDS (Austral. Terr.)

L.T.: GMT+11½ h. – **Pr. L.:** English.

NORFOLK ISLAND BROADCASTING SERVICE (Go.)
ADDR.: Dept. of Civil Aviation, Norfolk Island. – **L.P.:** Officer in charge: R. M. Pierce.
STATION: 1500 kc 0.05 kW. – **HOME SCE. in English:** D. 20.30–00.30. – **N., Wrp.:** D. 22.30. – **ANN.:** "This is Norfolk Island Broadc. Service". – **V.** by letter. Rp.

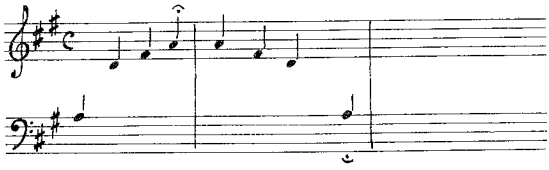
SAMOA (Western)

L.T.: GMT÷11 h – **Pr.L.:** Samoan, English.

BROADCASTING STATION 2AP (Go.)
ADDR.: Broadcasting Department, P.O. Box 200, Apia, Western Samoa. **Cable:** Voxpac. **Te.:** 2 – **L.P.:** Dir.: J. W. Moore. Prgr. Supervisor: L. Levi. Technician-in-charge: J. K. Brown.
STATION: 2AP Apia 1420 kc 211.3 m 10 kW.

HOME SERVICE: English/Samoan: W 17.45–20.00. Sun 20.00–23.00, 05.30–08.30 – **English:** W 05.30–06.30. Samoan: W 06.30–08.30 – **N.:** English: W 18.00, 06.00. Samoan: 06.45.

ANN.: "2AP, Apia, Western Samoa" – **V.** by QSL-card – **INT.-SIG.:**



SAMOA (Eastern, U.S. Territory)

L.T.: GMT÷11 h. – **Pr.L.:** Samoan, English.

R. STATION WVUV
ADDR.: Public Information Office, Pago Pago. **Te.:** 648.
L.P.: St. Dir.: F. Fauolo. Dir. Tec.: R. Williams.
STATION: WVUV 1120 kc 267.8 m 0.05 kW.
HOME SCE.: Mo–Fri 18.00–20.00, 05.00–08.00. Sat 17.00–03.00. Sun 21.00–02.00 – **N.: English:** Mo–Fri 18.30, Tues–Sat 05.45, Sat 22.00, 23.00, 24.00. Sun 01.00, 02.00. **Samoan:** Mo–Fri 19.45, 06.30, 07.30, Sat every h on the h from 22.00–02.00.
ANN.: E: "This is Station WVUV, Pago Pago, American Samoa" – **V.** by letter – **PUB.:** Weekly information paper and a daily news sheet in English – **F.PL.:** Increase power to 10 kW.

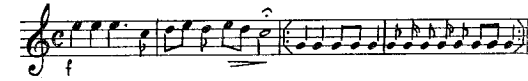
SOLOMON ISLANDS (British)

L.T.: GMT+11 h. – **Pr. L.:** English, Pidgin-English, Venaculars.
SOLOMON ISLANDS BROADCASTING SERVICE (Go.)
FI.: By Go., license payments and adv. – **AD.:** 06.00–06.30, 07.00–07.15, 07.37–08.00.
ADDR.: P.O. Box 115, Honiara. **Cable:** Broadcasts. **Te.:** 225.
L.P.: Broadc. Officer: R. F. Calbert, Broadc. Eng.: L. MacLachlan.
STATIONS (Systems Marconi, AWA)
VQO 1030 kc 291 m 0.66 kW. – VQO2 5980 kc 50.17 m 5 kW.
HOME SERVICE: Mo.–Fri. 08.00–11.15. Sat., Sun. 08.59–11.15. **English:** D. 08.59–11.15. – **N.:** W. 09.15 (BBC), 09.30, 11.00 (ABC), 11.10. **Pidgin English:** Mo.–Fri. 08.00–08.59. **N.:** 08.15. – **N. in Roviana:** Tues. 08.30. – **Wrp.:** D. 09.38.
ANN.: "This is the S.I.B.S. stations mw. VQO and sw. VQO2 transmitting from Honiora on the island of Guadalcanal". – **INT.-SIG.:** Gong. – **V.** by QSL-card. Re. must contain details to establish authenticity. – **PUB.:** Prgr. sched. by surface mail free on request.

TAHITI (French)

L.T.: GMT÷10 h. – **Pr. L.:** French, Tahitian, Maori.
RADIO TAHITI (Go.)
AD.: D. 21.45–22.00, 03.45–04.00.
ADDR.: R. diff. – Television Française, Station de Tahiti, Rue Dumont d'Urville 410, Papeete. **Cable:** Radio Tahiti. **Te.:** 243.
L.P.: Dir.: M. Espinasse. Dir. Tec.: W. Copie, Y. Rahe.
STATIONS (System TRT): 6135 kc 48.90 m 4 kW. – 11825 kc 25.37 m 4 kW.
HOME SCE.: W. 16.15–17.15, 21.30–23.00, 03.30–07.30, Sun. 20.00–23.00, 03.03–08.00.
French: 16.15–17.15, 21.45–23.00 (W), 05.00–07.30 (Sun. 08.00). – **N.:** 22.15, 05.30. **Tahitian:** 21.30–21.45 (W), 03.30–05.00. – **N.:** 21.30 (W), 04.00. **Bilingual:** Sun. 20.00–23.00.
Although times are GMT calendar days apply to Tahiti only.
ANN.: "Ici Tahiti, Radiodiffusion-Télévision Française". – **INT.-SIG.:** Tahitian flute (vivo) and drums.

Flute: Drums:



V. by QSL-card. – **PUB.:** Prgr. sched. free on request.

TONGA (Kingdom of)

L.T.: GMT+13 h. – **Pr. L.:** Tongan, English.
TONGA BROADCASTING COMMISSION (Go.)
FI.: By Go. assisted by revenue from adv. – **AD.:** In Tongan morning and evening; English and Samoan in overseas prgr.; Samoan spots also in Samoan prgr.'s.
ADDR.: P.O. Box 36, Nuku'alofa. **Cable:** Broadcom. **Te.:** 105.
L.P.: Mgr. R. G. Haggett. St. Eng.: H. J. Chapman. Dir. Prgr.: R. MacDonald.
STATION: ZCO 1020 kc 10 kW (System AWA).
HOME SERVICE in Tongan, English: 18.00–20.15 (Tongan, English), 06.00–09.30 (Tongan, English, Samoan). – **N.** Tongan: 19.00, 06.15. English 18.00 (BBC), 07.00. – **Wrp.** (for Tonga and Niue, Samoa and Fiji): At end of news and 19.15. Samoan: Wed. 08.30–09.00, Thurs.

Advertisement.
For Manufacturs and Agents with goods distributed throughout the South Pacific Islands and New Zealand, the Tonga Broadcasting Commission provides an excellent advertising medium. All enquires to the
Manager,
P.O. Box 36,
Nuku'alofa,
TONGA

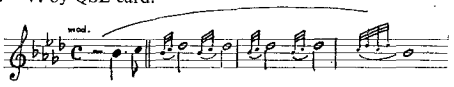
Shortwave broadcasts in eleven language . . . .
Program Schedule sent free of charge

Transcriptions and special programs provided to broadcasting organizations upon request

RADIO-CANADA

CANADIAN BROADCASTING CORPORATION
P.O. BOX 6000•MONTREAL, CANADA

09.00–09.30. – Tongan Music: D. 18.30, 19.30, 06.00, 06.30. – Overseas Musical Prgr.: D. 07.00–09.30 exc. when Samoan Prgr. and Tongan Rel. prgr. at 09.00–09.30. – Mbg. (English): 1st Mo. of the month 08.45. – For Scools (Tongan): D. 19.45 (Mo.–Fri.).
ANN.: "This is the Call of the Friendly Islands "ZCO Nuku'alofa of the Tonga Broadcasting Commission". – INT.-SIG.: Tongan Nose Flute. – V. by QSL-card.



NORTH AMERICA

BERMUDA (British)

L.T.: GMT÷4 h – Pr.L.: English.
BERMUDA BROADCASTING CO. LTD. (Comm.)
FI.: By adv. – ADDR.: Box 452, Hamilton. Cable: ZBM Bermuda. Te.: 2-1122. – L.P.: Man. Dir.: W. Staskow. Mgr.: G. Robinson. Dir. Tec.: J. H. Spershott.
STATIONS: 1 kW (System Gates):
ZBM1 1235 kc – ZBM2 1340 kc – FM 89.1 Mc
HOME SERVICE: 24 h on 1235 kc+FM. W: 11.00–01.00. Sun: 13.00–03.00 on 1340 kc.
N, Wrp: English: D 10.55, 11.45, 13.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00 –T.S.: Every ¼ h.
Portuguese: D 10.15–10.30 on 1235 kc – N: 5 mins.
ANN.: "This ZBM is R. Bermuda". – V by QSL-card. Rp.

CANADA

L.T.: See table: World Time. – Pr. L.: English, French.
Abbreviations: Nf=Newfoundland, NS=Nova Scotia. PEI=Prince Edward Isl. NB=N. Brunswick. P=Pacific. Qu=Quebec. O=Ontario. M=Manitoba. Sa=Saskatchewan. Al=Alberta. BC=British Columbia. W=Winnipeg. Pr=Province. Prince R=Prince Rupert. NWT=No. W. Territories.

CANADIAN BROADCASTING CORPORATION INTERNATIONAL SERVICE (Publicly-owned)
ADDR.: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal. Cable: Intrad.
L.P.: Dir.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon, Supervisor of Eng. Sce.: S. B. Duke. Supervisor of Inf. Sce.: H. Shane. Coordinator of Transcription Services: G. Poupart. Head Eng. Sce.: P. A. Tallman; Head French Sce.: J. M. Marcotte; Head Latin American Sce.: P. Marcos Bilbao. Supervisor of TV Prod.: G. Delanoe.
STATIONS: All international s.w. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgr.s are produced in Montreal and beamed from three 50 kW tr.'s at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25. 1945.

Call	kc	m	Call	kc	m	Call	kc	m
CKNA	5970	50.25	CKYS	9655	31.07	CKSR	15255	19.67
CHAY	5990	50.08	CHLR	9710	30.90	CKBR	15275	19.64
CKRZ	6060	49.50	CHFO	9740	30.80	CKCS	15320	19.58
CKOB	6090	49.26	CKXA	11705	25.63	CHSB	17710	16.94
CKYT	6120	49.02	CHOL	11720	25.60	CHRX	17735	16.92
CHAC	6160	48.70	CKRA	11760	25.51	CKNC	17820	16.84
CKLP	9585	31.30	CKEX	11900	25.21	CHYS	17865	16.80
CHLS	9610	31.22	CKNK	11945	25.12	CKYR	21595	13.89
CKYU	9625	31.17	CKUS	15105	19.86	CKRP	21600	13.89
CKLO	9630	31.15	CKCX	15190	19.75	CHLA	21710	13.82

EUROPEAN SERVICE (Nov. 1962–May 1963).
11.25–18.30 and 20.00–21.35
11.25–11.45 on 11720/15320/17820 kc. – 11.45–12.00 on 15320/17820 kc. – 12.00–12.30* on 15320/17820 kc. – 12.30*–15.30 on 11720/15320/17820 kc. – 15.30–15.45 on 15320/17820 kc. – 15.45–17.00 on 11720/15320/17820 kc. – 17.00–17.15 on 15320/17820 kc. – 17.15–18.30 on 9630/11720/15320 kc. – 20.00–21.35 on 9630/11720/15320 kc.
* Sun 13.15.

Time	Prgr.	
11.25–12.00	Czech	Daily
12.00–13.15	Forces Relay	Sun only
12.00–12.30	Forces Relay	Mo–Sat
12.30–13.00	Prgr.s for Europe	Mo–Sat
13.00–13.15	Prgr.s for Europe	Sat
13.00–13.15	Polish	Mo–Fri
13.15–13.30	Polish	Sat, Sun
13.30–14.00	Musical Prgr.	D
14.00–14.30	Ukrainian	–
14.30–15.30	Russian	–

15.30–15.45	News in English (15.30) & French (15.37)	
15.45–16.00	Hungarian	D
16.00–16.15	Slovak	–
16.15–17.00	Czech	–
17.00–17.15	News in English (to ships in No. Atlantic)	
17.15–18.00	Polish	D
18.00–18.30	**German**	–
20.00–20.45	French	N. 20.01
20.45–21.35	English	N. 20.45

AFRICAN SERVICE:

18.30–19.45	**on 9630/11720/15320 kc.**	
18.30–19.15	**English**	N. 18.32
19.15–20.00	**French**	N. 19.15

NORTHERN CANADA SERVICE (East, Central, West):

12.00–12.30*	on 6120 kc	(Forces Relay)
15.30–15.45	on 6120 kc	(N. in English & French)
17.00–17.15	on 11720 kc	(N. in English)
21.55–22.46	on 6120/9585/11720 kc	(English & French)

* Sun 13.15.

CARIBBEAN & LATIN AMERICAN SERVICE:

22.58–00.46	on 6120/9625/11720 kc	
23.00–23.30	**English**	N. 23.01
23.30–24.00	Portuguese	N. 23.30
00.00–00.45	Spanish	N. 00.00

NORTHERN CANADA SERVICE (East, Central, West):

00.58–02.30	on 6120/9585/11720 kc	(English
02.30–07.05	on 6120/9585 kc	(English)

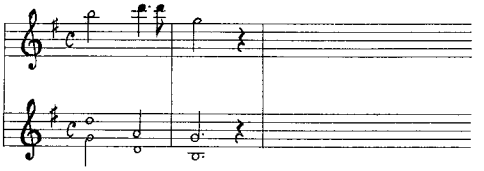
AUSTRALASIAN SERVICE:

08.25–09.05	on 5970/9630 kc	(English) N. 08.30

DX-Prgr.: In English: Every other Sat. during the regular English prgr. to Europe, Africa, Caribbean area, Austral asia. **In German:** Every other Sun.

ANN.: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is Canada".

INT.-SIG.: First four notes of the National Anthem "O Canada"



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal. – **V.** by letter or QSL-card. – **PUB.:** CBC-Radio-Canada prgr.sched. published about five times a year and sent free upon request.

CBC NATIONAL SERVICE (Publicly-owned).

ADDR.: Head Office: 140 Wellington Street, Ottawa. – **International Service:** Radio-Canada Building, 1425 Dorchester Street W., Montreal. **French Networks Division:** Radio-Canada Building, 1425 Dorchester Street W., Montreal. – **English Networks Division:** 354 Jarvis Street, Toronto. – **Newfoundland Reg.:** T. A. Building, St. John's. – **Maritime Reg.:** United Services Building, 100 Sackville Street, Halifax. – **Prairie Reg.:** 541 Portage Avenue, Winnipeg. – **British Columbia Reg.:** 701 Hornby Street, Vancouver. – **Ottawa Area:** Chateau Laurier, Ottawa. – **Northern and Armed Forces Services:** Commonwealth Bldg. 77 Metcalfe Street, Ottawa. – **Engineering Headquarters:** 5253 Decarie Boulevard, Montreal. – **Offices outside Canada:** CBS Representative at the United Nations, c/o the United Nations, New York, N.Y., USA; CBC Representative in London, The Langham, Portland Place, London W. 1, England; CBC Representative in Paris, Hotel Napoleon, 38 Avenue Friedland, Paris 8e, France.

L.P.: Pres.: J. A. Ouimet, Vice Press.: Capt. W. E. S. Briggs. Vice Pres. Programming: E. S. Hallman. Comptroller: V. F. Davies. Vice Pres. Personel & Operations: J. P. Gilmore, Vice Pres. Corporate Affairs: R. C. Fraser. Gen. Mgr. Reg. Broadc.: C. Jennings. Gen. Mgr. English Networks: H. G. Walker. Gen. Mgr. French Networks: M. Ouimet.

CBC Representatives: Paris: B. Lafleur. London: S. Moore. New York: J. T. Craine.

CBC-STATIONS

Call	kc	kW	Call	kc	kW
1) CBI	1140	5	10) CBX	1010	50
2) CBH	1340	0.100	11) CBXA	740	0.25
3) CBA	1070	50	12) CBU	690	10
4) CBM	940	50	13) CFPR	1240	0.25
5) CBO	910	5	14) CFGB	1340	1
6) CBL	740	50	15) CBN	640	10
7) CBE	1550	10	16) CBG	1450	0.25
8) CBW	990	50	17) CBT	990	1
9) CBK	540	50	18) CBY	790	1
19) CFYK	1340	0.250	22) CFFB	1200	0.04
20) CFWH	1240	0.250	23) CHAK	860	1
21) CHFC	1230	0.25			

1) P.O. Box 700, Sydney, NS. **D. Prgr.:** 10.55 (Sun. 12.45)–04.10.
2) P.O. Box 175, Halifax, NS. **D. Prgr.:** W. 11.00 (Sun. 12.10) 04.10.
3) P.O. Box 130, Sackville, NS. **D. Prgr.:** 11.00 (Sun. 12.10)–04.10.
4) P.O. Box 6000, Montreal, Qu. **D. Prgr.:** 11.00–06.00.
5) P.O. Box 1045, Ottawa, O. **D. Prgr.:** 11.00–05.00.
6) P.O. Box 500, Toronto, O. **D. Prgr.:** 11.00–06.00 (Sun. 13.00–06.00.
7) Security Bldg., University & Pelissier. **D. Prgr.:** 11.00–06.05.
8) P.O. Box 160, Winnipeg, **M. D. Prgr.:** 12.00 (Sun. 13.00)–06.15.
9) P.O. Box 347, Regina, Sa. **D. Prgr.:** 13.00(Sun. 15.45)–08.00.
10) P.O. Box 2290, Edmonton, Al. **D. Prgr.:** 13.45 (Sun. 14.45)–07.00.
11) P.O. Box 2290, Edmonton, Al. **D. Prgr.:** 13.45(Sun. 14.45)–07.00.
12) 701 Hornby Street, Vancouver BC. **D. Prgr.:** 14.00.
13) 343 W. 2nd Ave., Prince Rupert, BC. **D. Prgr.:** 14.30 (Sun. 16.00)–08.03.
14) P.O. Box 237, Goose Bay, Lab. **D. Prgr.:** 10.00–04.30.
15) P.O. Box 5490, St. John's, Nf. **D. Prgr.:** 11.00–04.00.
16) P.O. Box 790, Gander, Nf. **D. Prgr.:** 10.30 (Sun. 11.00)–03.30.
17) P.O. Box 218, Grand Falls, Nf. **D. Prgr.:** 10.30–03.45.
18) P.O. Box 610, Corner Brook, Nf. **D. Prgr.:** 10.30 (Sun. 11.00)–03.30.
19) Northern Affairs Bldg., Yellowknife, NWT. **D. Prgr.:** 13.00 (Sun. 15.00)–07.00.
20) P.O. Box 730, Whitehorse, YT. **D. Prgr.:** 15.00–09.00.
21) Fort Churchill, M. **D. Prgr.:** 12.30–06.00 (Sun. 13.55–06.15).
22) P.O. Box 10, Frobisher Bay, NWT. **D. Prgr.:** 12.00 (Sun. 13.00)–05.00.
23) P.O. Box 1220, Inuvik, NWT. **D. Prgr.:** 15.00 (Sun. 17.00)–08.00.
+81 low power relay st's not mentioned.

Private Affiliated stations: See private stations.

Short Waves:

15) CBNX 5970 kc 50.25 m 0.3 kW 11.00–04.00 (Relay CBN).
12) CBUX 6160 – 48.70 – 0.5 – 14.00 (Sun. 15.00)–08.05 (relay CBU).

Note: Although times are in GMT, calendar days apply to Canada only.

CBNX: N. & Wrp.: W.: 11.00, 11.30, 12.00, 12.15, 13.00 (exc. Sat.), 14.00 (Sat.), 15.30, 17.00, 19.00*, 20.00*, 21.30, 22.30, 00.25 (Sat.), 03.00 (exc. Sat.), 04.05 (Sat.).
Sun. 12.30, 13.00, 15.45, 17.00, 20.00, 23.30, 03.00.
*) Mo., Tues., Fri., only.

CBUX: N. & Wrp.: 14.00, 14.05 (Mo.), 15.05 (Mo.), 15.30 (Mo.), 16.00 (Mo.), 16.30 (Mo.), 17.00, 19.00 (Sat.), 20.15 (exc. Sat.), 22.30 (exc. Sat.), 00.25 (Sat.), 00.27 (Mo.), 01.30 (exc. Sat.), 02.30 (Sat.), 03.00 (Tues.–Fri.), 06.00, 07.57 (exc. Mo.), 08.00 (Mo.).
Sun. 15.00, 17.00, 19.00, 00.25, 02.30, 06.00, 07.57. – **Marine Weather:** 14.54 (Mo.), 14.55 (Sat.), 20.55 (exc. Sat./Sun.), 08.00.
ANN.: CBUX: "This is the Canadian Broadcasting Corporation CBU/CBUX, Vancouver".
V.: CBNX/CBUX: by QSL-card unless extra inf. is requested, in which case letters of explanation are sent.

FRENCH NETWORK (Basic Stations)

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) CBAF	1300	5	2) CBV	980	5	3) CBF	690	50
4) CBJ	1580	10						

1) 232 St. George Str., Moncton, NB. **D. Prgr.:** 11.00 (Sun. 12.45)–04.10.
2) Palais Montcalm, St. Jean Str., Quebec, Qu. **D. Prgr.:** 11.55 (Sun. 12.55)–05.00.
3) P.O. Box 6000, Montreal, Qu. **D. Prgr.:** 11.00–06.02 (Sun. 13.00–05.02).
4) P.O. Box 790, Chicoutimi, Qu. **D. Prgr.:** 11.30 (Sun 13.00)–05.00.
+11 low power stations not mentioned.

Private Affiliated stations: See private stations.

FM-STATIONS

CBF-FM Montreal 95.1 Mc 3.86 kW (French Netw.).
CBM-FM Montreal 100.7 Mc 3.86 kW. CBO-FM Ottawa 103.3 Mc 0.38 kW.
CBC-FM Toronto 99.1 Mc 11.9 kW. CBU-FM Vancouver 107.5 Mc 1 kW.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks Str., Ottawa 4.
Medium Waves: 71 less 5 kW stations not mentioned. **FM:** 30 st.'s [1])=FM, [°])=Short Wave, d=directional aerial.
Stations affiliated to CBC – English Network

	Call	kc	kW		Call	kc	kW
1)	CJFX	580	5d	6)	CFCY	630	5d
2)	CKEC	1320	5d	7)	CKBC	1400	0.25
3)	CKCL	600	1	8)	CHSJ	1150	10/5d
4)	CJLS	1340	0.25	9)	CKNB	950	1
5)	CKBW	1000	1	10)	CJCJ	920	1

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
2000
Arctic Ocean
Baffin Bay
Davis Strait
Denmark Strait
Hudson Bay
Labrador
GREENLAND
THULE
UPERNAVIK
ANGMAGSSALIK
GODHAVN
KOOK
GODTHÅB
FREDERIKSHÅB
Baffin Isl.
KOVIK
ALASKA
INUVIK
FAIRBANKS
DAWSON
ANCHORAGE
CORDOVA
Yukon
WHITEHORSE
North West Territories
YELLOW-KNIFE
HAY RIVER
FORT SMITH
NELSON
CHURCHILL
SCHEFFERVILLE
GOOSE BAY
GRAND FALLS
GANDER
ST. JOHN'S
ST. PIERRE
New Foundland
British Columbia
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
C A N A D A
EDMONTON
PRINCE ALBERT
KAMLOOPS
VANCOUVER
KELOWNA
CALGARY
SASKATOON
WATROUS
REGINA
MEDICINE HAT
LETHBRIDGE
BRANDON
WINNIPEG
FORT ARTHUR
FORT WILLIAM
SUDBURY
TIMMINS
CHICOUTIMI
QUEBEC
TROIS RIVIERES
MONTREAL
VERCHERES
OTTAWA
SYDNEY
SACKVILLE
HALIFAX
SAINT JOHN
SCHENECTADY
BOSTON
Massachusetts
Connecticut
NEW YORK
BROOK
PHILADELPHIA
Delaware
Maine
VICTORIA
SEATTLE
SPOKANE
Washington
PORTLAND
Montana
N. Dakota
Minnesota
ST. PAUL
MINNEAPOLIS
Wisconsin
Michigan
TORONTO
New York
LONDON
DETROIT
BUFFALO
Pennsylvania
Oregon
Idaho
S. Dakota
Wyoming
WATERLOO
Iowa
CHICAGO
Nebraska
DESMOINES
Ohio
Indiana
Illinois
CINCINNATI
WASHINGTON
Maryland
Virginia
SACRAMENTO
DIXON
Nevada
SALT LAKE CITY
Utah
DENVER
OMAHA
K. CITY
INDIANAPOLIS
SAN FRANCISCO
California
U N I T E D S T A T E S
RICHMOND
PEMBROKE
Colorado
LAWRENCE
ST. LOUIS
LOUISVILLE
Kentucky
RALEIGH
Bermuda
FRESNO
DELANO
Kansas
Missouri
N. Carolina
NASHVILLE
TULSA
Oklahoma
Tennessee
CHARLOTTE
HOLLYWOOD
LOS ANGELES
Arizona
ALBUQUERQUE
OKLAHOMA CITY
Arkansas
MEMPHIS
S. Carolina
TIJUANA
MEXICALI
ENSENADA
New Mexico
LITTLE ROCK
ATLANTA
Mississippi
BIRMINGHAM
Alabama
Georgia
DALLAS
SHREVEP
FORT WORTH
Texas
Louisiana
CIUDAD JUAREZ
NEW ORLEANS
Florida
SAN ANTONIO
HOUSTON
HERMOSILLO
CHIHUAHUA
CIUDAD OBREGON
PIEDRAS NEGRAS
CIUDAD ACUÑA
NUEVO LAREDO
SABINAS
REYNOSA
RIO BRAVO
CORPUS CHRISTI
GULF OF MEXICO
TORREON
CULIACAN
MONTERREY
SALTILLO
LA PAZ
ROSARIO
ZACATECAS
HOLLYWOOD
MIAMI
NASSAU
Bahama Islands
HABANA
CUBA
MEXICO
TAMPICO
GUADALAJARA
LEON
S. LUIS POTOSI
IRAPUATO
MEXICO CITY
MERIDA
PETIONVILLE
PUERTO RICO
HAITI
KINGSTON
JAMAICA
SAMORA
MORELIA
JALAPA
VERA CRUZ
URUAPAN
PUEBLA
ORIZABA
VILLA HERMOSA
TUXTLA
BELIZE
BR. HONDURAS
ZITACUARO
OAXACA
GUATEMALA CITY
SAN SALVADOR
CENTRAL AMERICA
TEGUCIGALPA
MANAGUA
SAN JOSE
PANAMA
CARIBBEAN SEA
MARACAIBO
MERIDA
VENEZUELA
COLUMBIA
MEDELLIN
ATLANTIC OCEAN
PACIFIC OCEAN
NORTH
70°
60°
50°
40°
30°
20°
10°
120°
110°
100°
90°
80°
130°
140°
150°
160°

Canada

	Call	kc	kW		Call	kc	kW
11)	CFNB	550	50	32)	CHOV	1350	1
12)	CKMR	790	1	33)	CJET	630	1
13)	CKTS	900	1	34)	CFPA	1230	1
14)	CJQC	1340	0.25	35)	CFOB	800	1
15)	CJNR	730	1	36)	CFOS	560	1
16)	CFPL	980	10/5d	37)	CKX	1150	10/1d
17)	CJIC	1050	10/2.5d	38)	CFAR	590	1
18)	CFCH	600	10	39)	CFAC	960	10d
19)	CJBQ	800	1	40)	CHAT	1270	1
20)	CFOR	1570	10/1d	41)	CFGP	1050	10d
21)	CFJR	1450	1	42)	CJOC	1220	10/5d
22)	CJCS	1240	0.25	43)	CJIB	940	1
23)	CHOK	1070	5/1d	44)	CJAV	1240	0.25
24)	CKCR	1490	0.25	45)	CKPG	550	0.25
25)	CKWS	960	5d[1])	46)	CKOK	800	10/0.5d
26)	CKSO	790	10/5d	47)	CKLN	1390	1
27)	CKLY	910	1	48)	CJAT	610	1
28)	CHEX	980	5d	49)	CKOV	630	1
29)	CKGB	680	10	50)	CFJC	910	10/1
30)	CJKL	560	5d	51)	CHWK	1270	10d
31)	CJRL	1220	1	52)	CJVI	900	10d

Stations affiliated to CBC French Network

	Call	kc	kW		Call	kc	kW
53)	CHNC	610	5d	65)	CHAD	1340	0.25
54)	CJEM	570	1	66)	CKRN	1400	0.25
55)	CKBL	1250	5d	67)	CKUM	710	1
56)	CJBR	900	10d[1])	68)	CFCL	620	10/2.5d
57)	CKBR	1460	10/5d	69)	CFBR	550	1
58)	CHLT	630	10/5d	70)	CKSB	1050	10d
59)	CHGB	1350	1/0.25	71)	CFNS	1170	1
60)	CKLD	1230	0.25	72)	CFRG	710	5
61)	CJFD	1400	1/0.25	72)	CFGR	1230	0.25
62)	CKCH	970	5d	73)	CHFA	680	5d
63)	CKLS	1240	0.25	74)	CJAF	1340	0.25
64)	CKVD	1230	1/0.25				

Other private Stations

	Call	kc	kW		Call	kc	kW
75)	CHLN	550	10d	111)	CKRM	980	10/5d
76)	CFRA	580	50/10d	112)	CKNW	980	10/5d
77)	CKEY	580	5/1d	113)	CKGM	980	10d
78)	CKPR	580	5/1[1])	114)	CFRB	°1010	50d
79)	CKY	580	50d	115)	CHUM	1050	5/2.5d
80)	CKUA	580	10[1])	116)	CFCN	°1060	10d
81)	VOCM	590	10	117)	CJLR	1060	10d
82)	CFCF	600	5d[1])	118)	CHED	1080	10/1d
83)	CFCH	600	10/5d	119)	CHEC	1090	5d
84)	CFQC	600	5d	120)	CKWX	°1130	50d
85)	CJOR	600	10d	121)	CKXL	1140	10d
86)	CKTB	610	10/5d[1])	122)	CKOC	1150	5d
87)	CKCK	620	5d	123)	CKTR	1150	10/1d
88)	CKRC	630	5d	124)	CKCW	1220	10d
89)	CJOB	680	10[1])	125)	CKDA	1220	10d[1])
90)	CKAC	730	50d	126)	CFRN	1260	10d[1])
91)	CKLG	730	10d	127)	CJCB	°1270	5/1d[1])
92)	CKDM	730	10/5d	128)	CJMS	1280	10/5d
93)	CFCW	790	10d	129)	CKCV	1280	10d
94)	CHAB	800	10/5d	130)	CHIQ	1280	5/2.5d
95)	CHRC	800	10d[1])	131)	CFAM	1290	10/5d
96)	CJAD	800	10d	132)	CKSL	1290	5d
97)	CKLW	800	50d[1])	133)	CKOY	1310	5/1d
98)	CJLX	800	5d	134)	CHGB	1310	5d
99)	CKVL	850	50/10d	135)	CFGM	1310	10/2.5d
100)	CHML	900	5d	136)	CHQM	1320	10d
101)	CHNO	900	10/1d	137)	CKLB	1330	10/5d[1])
102)	CKBI	900	10d	138)	CKLC	1380	5d[1])
103)	CJCH	920	10/5d	139)	CKPC	1380	10d
104)	CKCY	920	10	140)	CFUM	1410	10d
105)	CFBC	930	10	141)	CKOM	1420	10d
106)	CJCA	930	10/5d[1])	142)	CKFH	1430	10/5d
107)	CJON	930	10d	143)	CJNB	1460	10d
108)	CJGX	940	10/1	144)	CJOY	1460	10/5d
109)	CKBB	950	5/2.5d	145)	CHUB	1570	10d[2])
110)	CHNS	°960	10d[1])	146)	CHVC	1600	10d

Short Waves:		**kc**	**kW**	**Name**
127)	CJCX	6010	1	Cape Breton Broadcasters, Sydney: 12.50 (Sun. 13.53)–05.10.
116)	CFVP	6030	0.1	The Voice of the Prairies, Calgary: 24 h. exc. Mo. 07.05–13.00.
114)	CFRX	6070	1	Rogers Radio Broadc. Co., Toronto: 24 h. exc. Sun. 08.00–12.00.
120)	CFKX	6080	0.1	CKWX Radio, Vancouver: 24 h.
110)	CHNX	6130	0.5	Maritime Broadc. Co., Halifax: 24 h.

Medium Wawes

1) **Atlantic Broadcasters Ltd**, St. Ninian Str., Antigonish, NS – **D. Prgr.**: 10.45 (Sun. 13.00)–04.15 – **V.** by letter.

2) **Hector Broadc. Co. Ltd.**, 130 George Street, New Glasgow, NS.
3) Truro, NS – 4) Yarmouth, NS – 5) Bridgewater, NS.
6) **Island R. Broadc. Co. Ltd.**, Broadc. Centre, 85, Kent Str., Charlottetown, PEI. – **D. Prgr.**: 11.15 (Sun. 13.00)–04.00 – 7) Bathurst, NS.
8) **Brunswick Broadc. Co.**, 85 Germain Str., St. John, NB – 24 h. –
9) Campbellton, NB – 10) Woodstock, NB –
11) **R. CFNB**, 67 York St., Fredericton, NB 24 h. **V.** by QSL-card.
12) Newcastle, NB – 13) Sherbrooke, Qu – 14) Quebec, Qu –
15) Blind River, – 16) **London Free Press Printing Co. Ltd.**, 442–6 Richmond Str., London, O – **D. Prgr.**: 24 h. – **V.** by letter.
17) **Hyland Radio-TV Ltd.**, 119 East Str., Sault Ste. Marie, O – 24 h.
18) North Bay, O – 19) Belleville, O.
20) **Radio CFOR**, 241 West Str. No., Orillia, O – **L.P.**: Gen. Mgr.: G. E. Smith – 11.30–04.15. – **V.** by QSL-card.
21) Brockville, O – 22) Stratford, O.
23) **Sarnia Broadc. Co. Ltd.**, 148½ Front Str. N., Sarnia, O – **L.P.**: Dir. Gen.: C. Irvine – **D. Prgr.**: 11.00–06.00. – **V.** by letter and QSL-card. – 24) Kitchener, O.
25) **The Frontenac Broadc. Co.**, 170 Queen Str., Kingston, O – **D. Prgr.**: 11.00 (Sun. 12.45)–06.00.
26) **CKSO R. Ltd.**, 336 Ash Str., Sudbury, O – **D. Prgr.**: 11.00–06.00.
27) Lindsay, O – 28) **Kawartha Broadc. Co. Ltd.**, P.O. Box 65?, Peterborough, O – 11.00 (Sun. 13.40)–05.10. – **V.** by QSL-card. Rp.
29) **Timmins Broadc. Co. Ltd.**, Thomson Bldg., Timmins, O. – **D. Prgr.**: W. 11.00–05.10 (Sat. 06.00). Sun. 12.00–05.10.
30) **Kirkland Lake Broadc. Ltd.**, Government Rd. W., Kirkland Lake, O – **D. Prgr.**: W. 11.00–05.15. Sun. 13.00–05.15. – **V.** by QSL-card.
31 Kenora, O – 32) Pembroke, O – 33) Smiths Falls, O –
34) Port Arthur, O – 35) Fort Frances, O – 36) Owen Sound, O.
37) **Western Manitoba Broadcasters Ltd.**, 2940 Victoria Ave., Brandon, M – **D. Prgr.**: W. 12.00–07.00 Sun. 14.00–06.00 – 38) Flin Flon, M.
39) **Calgary Broadc. Co. Ltd.**, 1301–17th Ave. S.W., Calgary, Al – **L.P.**: Gen. Mgr.: D. H. Hartford – **D. Prgr.**: 24 h. exc. Tues. 07.00–12.30. – **V.** by QSL-card. Rp. – 40) Medicine Hat, Al.
41) **Northern Broadc. Corp. Ltd.**, 9910–99th Str., Grande Prairie, Al – **D. Prgr.**: 13.00 (Sun. 15.00)–07.00.
42) **Lethbridge Broadc. Ltd.**, 1015 Third Ave. S., Lethbridge, Al – **D. Prgr.**: W. 13.00–08.00. Sun. 14.30–07.00.
43) Vernon, BC – 44) Port Alberni, BC – 45) Prince George, BC.
46) **CKOK Ltd.**, 125 Nanaimo Ave. W., Penticton, BC. – **L.P.**: Gen. Mgr.: M. P. Finnerty. – **D.Prgr.**: 14.00–08.00. – 47) Nelson, BC.
48) Trail, BC. – 49) Kelowna, BC. – 50) **Inland Broadcasters Ltd.**, 387 4th Ave., Kamloops, BC. – **D. Prgr.**: W. 14.00–07.30. Sun. 15.30–07.00.
51) **Fraser Valley Broadcasters Ltd.**, 50 Yale Road East, Chilliwack, BC. – **L.P.**: J. M. MacLachlin. – **D. Prgr.**: W. 14.00–08.01. Sun. 15.00–07.00.
52) **Island Broadc. Co. Ltd.**, 817 Fort Str., Victoria, BC. – **L.P.**: Mgr.: Wm. M. Guild. – **D. Prgr.**: D. 13.30–09.00. – N. 5 min. every h. – **ANN.**: "This is R. CJVI, Victoria, your family station". – **V.** by letter.
53) **Radio St. CHNC**, N. Carlisle, Qu. – **L.P.**: Dir. Gen.: Dr. C. H. Houde. – **D. Prgr.**: F.: 12.00–05.00. – **CKNB**: **E.**: 11.00(Sun. 13.00)–04.15.
54) Edmundston, NB. – 55) **La Cie. de Radiodiffusion de Matane Ltee.**, 4 St. Sacrament Str., Matane, Qu. – **D Prgr**: 11.00–05.00. – **V.** by letter.
56) **Lower St. Laurence Radio Inc.**, 6 St. Jean Str., Rimouski, Qu. – **L.P**: Dir. Gen.: J. Brillant. – **D. Prgr.**: 11.00–06.00.
57) **R. Beauce Inc.**, 30, rue Saint Antoine, Ville Saint-Georges, Cté. de Ceauce, Qu. – **L.P.**: Man. Dir.: C. A. Thibaudeau. – **D. Prgr.**: W. 12.00–04.00. Sun. 16.00–04.10.
58) **La Tribune Limitee**, 221 Dufferin Street, Sherbrooke, Qu. – **D. Prgr.**: 11.00(Sun. 13.00)–05.00. – 59) St. Anne de la Pocatiere, Qu.
60) Thetford Mines, Qu. – 61) Rivière du Loup, Qu.
62) **La Compagnie de Radiodiffusion CKCH de Hull Ltee.**, 72 Laval Str., Hull, Qu. – **L.P.**: Dir. Gen.: M. A. Gratton. – **D. Prgr.**: French W. 11.00–04.15. Sun. 13.55–05.00. – **V.** by letter.
63) La Sorre, Qu. – 64) Val d'Or, Qu. – 65) Amos, Qu. – 66) Rouyn, Qu. – 67) Ville Marie, Qu.
68) **J. Conrad Lavigne Enterprises Ltd.**, Timmins, O. – **D. Prgr.**: 11.00(Sun. 13.00)–06.00(Sat. 07.00). – 69) Sudbury, O.
70) **R. St. CKSB**, 607 Langevin St., St. Boniface, M. – **L.P.**: Gen. Mgr.: R. Couture. – **D. Prgr.**: French: 12.55–06.15. – 71) Saskatoon.
72) **Radio Gravelbourg**, Gravelbourg, Sa. – **D. Prgr.**: W. 14.00–05.00. Sun. 18.00–05.00. – During Nighttime st. uses 1230 kc with 0.25 kW.
73) **R. Edmonton Ltd.**, 10012–109th Str., Edmonton, Al. – **D. Prgr.**: 14.00(Sun. 17.00)–07.00. – 74) Cabano, Qu.
75) **R. Trois Rivieres Inc.**, 522 Bonaventure Str., Trois Rivieres, Qu. – **D. Prgr.**: W. 10.50–05.30. – **ANN.**: "La Voix de la Mauricie au Couer du Qubec". – **V.** by QSL-card.
76) **CFRA Broadcasting Ltd.**, 150 Isabella St., Ottawa, O. – **L.P.**: Pres.: F. Ryan. – 24 h. – **V.** by QSL-card.
77) **Shoreacres Broadc. Co.**, 1262 Don Mills R., Toronto, O. – 24 h.
78) **H. F. Dougall Co. Ltd.**, 414 Victoria Ave., Fort William, O. – **D. Prgr.**: 11.25(Sun. 14.00)–05.00.

79) **Moffat Broadc. Ltd.**, 432 Main Str., Winnipeg, M. – **L.P.**: Pres.: L. E. Moffat. – 24 h. – **V.** by letter.
80) **R. Station CKUA,** University of Alberta, 10526 Jasper Ave., Edmonton, Al. – **L.P.**: St. Mgr.: J. W. Hagerman. – **D. Prgr.**: 13.00–08.00. – **V.** by letter.
81) **Colonial Broadc. System Ltd.,** McBride's Hill, St. John's, Nf. – **D. Prgr.**: W. 10.00–04.30.
82) **Canadian Marconi Co. Ltd.**, 600 Dominion Square Bldg., Montreal, Qu. – **D. Prgr.**: 11.00–06.00. – **V.** by letter.
83) **Northern Broadc. Ltd.,** 581 Fraser St., North Bay, O. – 10.00–06.00.
84) **Radio CFQC,** 216 First Ave., N. Saskatoon, Sa. – **L.P.**: Dir. Gen.: A. A. Murphy. – **D. Prgr.**: W. 24 h. exc. Mo. 07.00–13.00.
85) **CJOR Ltd.,** 846 Howe Str., Vancouver, BC. – **L.P.**: Dir. Gen.: G. Chandler. – 14.00(Sun. 15.30)–08.00. – **V.** by QSL-card or letter.
86) **The Niagara Distr. Broadc. Co. Ltd.,** 12 Yates Str., St. Catharines, O. – **L.P.**: Dir. Gen.: Miss M. C. Burgoyne. – **D. Prgr.**: 10.45(Sun. 12.40)–05.15. – **V.** by QSL-card or letter. – **FM**: 97.7 Mc 0.25 kW.
87) **Transcanada Communications,** The Leader Post Bldg., Regina, Sa. **L.P.**: Mgr.: D. R. Dawson. – **D. Prgr.**: 24 h. – **V.** by QSL-card.
88) **R. Station CKRC,** 300 Carlton Str., Winnipeg, M. – **D. Prgr.**: 24 h. – **V.** by letter.
89) **Radio OB Ltd.,** Lindsay Bldg., 228 Notre Dame Ave., Winnipeg, M. – **L.P.**: Gen. Mgr.: J. O. Block. – **D. Prgr.**: 24 h. – **V.** by QSL-letter.
90) **La Cie. de Publication de "la Presse",** 980 St. Catherine St. W., Montreal, Qu. – **D. Prgr.**: 12.00–07.00
91) **Moffat Broadc.,** 143 East 11th Str., N., Vancouver, BC. – 24 h.
92) **Dauphin Broadcasting Co.,** Third Ave. NE., Dauphin, M. – 24 h.
93) **Camrose Broadcasting Co.,** 4832-50th Str., Camrose, Al. – 24 h.
94) **R. St. CHAB,** 127 Main Str., Moose Jaw, Sa. – **L.P.**: Mgr.: S. Bovling. – **D. Prgr.**: 13.00–07.00. – **V.** by letter.
95) **CHRC Ltd.,** 39 rue St.-Jean, Quebec. – **D. Prgr.**: 11.00(Sun. 13.30)–05.00. – **V.** by QSL-card.
96) **GJAD Ltd.,** 1191 Mountain Str., Montreal, Qu. – **D. Prgr.**: 24 h. ex. Mo. – **V.** by QSL-card.
97) **Western Ontario Broadc. Co. Ltd.,** 825 Riverside Drive West, Windsor, O. – **L.P.**: Gen. Mgr.: J. E. Campeau. – 24 h. – **V.** by letter.
98) **CJLX, Lakehead Broadc. Co.,** 407 Victoria Ave., Fort William, O. – **L.P.**: Gen. Mgr.: R. P. MacGowan. – **D. Prgr.**: W. 11.00–06.00. Sun. 13.00–05.00.
99) **CKVL Ltd.,** 211 Gordon Ave., Verdun, Qu. – 24 h. – **V.** by QSL-card.
100) **Maple Leaf Broadc. Co. Ltd.,** 848 Main Str. E. Hamilton, O. – **L.P.**: Pres.: K. D. Soble. – **D. Prgr.**: 10.00(Sun. 12.00)–07.00.
101) **The Sudbury Broadc. Co. Ltd.,** 166 Elm Str. W., Sudbury, O. – **L.P.**: Gen. Mgr.: F. B. Ricard. – **D. Prgr.**: 24 h.
102) **Central Broadc. Co., Ltd., CKBI** Bldg., 10th Str., Prince Albert, Sa. – **D. Prgr.**: 13.00(Sun. 13.30)–08.00.
103) **CJCH Ltd.,** 741 Robie Str., Halifax, NS. – **D. Prgr.**: 14.00–04.15.
104) **Algonquin Radio-T.V. Co. Ltd.,** P.O. Box 399, Sault Ste. Marie, O. – **D. Prgr.**: 24 h. – **V.** by letter
105) **Fundy Broadc. Co. Ltd.,** 68 Carleton Str. St. John, NB. – **L.P.**: Gen. Mgr.: R. T. Bowman. – **D. Prgr.**: W. 10.00–05.00. Sun. 12.00–04.15. – **V.** by letter.
106) **Edmonton Broadc. Ltd.,** 10113-104th Str., Edmonton, Al. – 24 h.
107) **The Newfoundland Broadc. Co. Ltd.,** Prince of Wales Str., St. John's, Nf. – **L.P.**: St. Mgr.: C. Pope. – **D. Prgr.**: D. 10.00–04.30
108) **Yorkton Broadc. Co. Ltd.,** Tower Theatre Bldg., 2nd Ave., Yorkton, Sa. – **D. Prgr.**: 24 h. – **V.** by QSL-card.
109) **Barrie Broadc. Co. Ltd.,** P.O. Box 519, Barrie, O. – **D. Prgr.**: W. 11.00–04.05. Sun. 13.25–04.05. – **V.** by QSL-card or letter. Rp.
110) **The Maritime Broadc. Co.,** P.O. Box 400, Halifax, NS. – **L.P.**: Gen. Mgr.: F. W. Arenburg. 24 h. – **V.** by QSL-card. R.p.
111) **W. Communications Ltd.,** 2060 Halifax Str., Regina, Sa. – **D. Prgr.**: W. 12.30–08.00. Sun. 14.00–07.00.
112) **R. NW. Ltd** , Windsor Hotel, 227 Colombia Str., New Westminster, BC. – **D Prgr.**: 24 h.
113) **Maisonneuve Broadc. Corpo. Ltd.,** Montreal. – **L.P.**: Pres.: G. Stirling. – **D. Prgr.**: 24 h.
114) **Rogers R. Broadc. Co.,** 37 Bloor Str., W., Toronto 5, O. – **L.P.**: W. C. Thornton Cran. Dir. Tec.: C. Eastwood. – 24 h. on all freq.'s. – **N** : W. 05.00–14.00 every half h., 15.00, 16.00, 16.50, 17.30, 18.00, 19.00, 20.00, 21.00, 22.00, 22.50, 23.30, 01.00, 02.00, 03.00, 04.00. Sun.: 05.00–08.00 every half h., 12.00 and 14.00–04.00 every h. on the h. – **ANN** : "This is CFRB, CFRB-FM, CFRX, Toronto, Canada". **V.** by QSL-card and letter.
115) **R CHUM,** 1330 Yonge Str., Toronto 7, O. – **D. Prgr.**: 24 h.
116) **The Voice of the Prairies Ltd.,** Broadcast House, Calgary, Al. – **L.P.**: Dir. Gen.: H. G. Love. Dir. Tec.: R. W. Lamb. – **D. Prgr.**: 24 h. exc. Mo. 07.05–13.00. **N.**: On the h.; major newscasts 16.00, 20.30, 06.00. – **ANN.**: "Dial Ten Sixty CFCN, Calgary". – **V.** by QSL-card.
117) **C.J.L.R. Inc.,** Quebec, Qu. – **L.P.**: Gen. Mgr.: J. La Roche. – **D. Prgr.**: D. 11.00–07.00.
118) **CHED Ltd.,** 10006-107th Str., Edmonton, Al. – **D. Prgr.**: 24 h.
119) **Southern Alberta Broadc. Ltd.,** Lethbridge, Al. – **L.P.**: Gen. Mgr.: J. Budd. – **D. Prgr.**: 24 h.
120) **CKWX Ltd.,** 1275 Burrard Str., Vancouver, BC. – **L.P.**: St. Mgr.: W. Speers. Dir. Tec.: C. R. Polith. – **D. Prgr.**: 24 h. – **N.**: every h. and half h. – **ANN.**: "CKWX and CKFX, Vancouver". – **V.** by letter.
121) **CKXL Ltd.,** 210-9th Ave. W., Calgary, Al. – **L.P.**: Gen. Mgr.: A. R. MacKenzie. – **D. Prgr.**: W. 13.00–08.00. Sun. 13.00–07.00.
122) **Wentworth R. Broadc. Co. Ltd.,** 73 Garfield St. South, Hamilton, O. – **D. Prgr.**: W. 10.00–06.00. Sun. 11.55–05.11.
123) **C.K.R.T. (1958) Limitée,** 543, rue Gervais, Trois-Rivières, Qu. – **L.P.**: Gen. Mgr.: J. Rufiange. – **D. Prgr.**: Mo.–Fri. 10.55–05.30. Sat. 10.55–07.00. Sun. 13.55–05.30.
124) **Moncton Broadc. Ltd.,** Knights of Pythias Bldg., Moncton, NB. – **D. Prgr.**: W. 10.00–05.00, Sun. 12.00–04.15. – **V.** by QSL-card.
125) **Capital Broadc. System Ltd.,** Hotel Douglas, Victoria, BC. – **D. Prgr.**: W. 24 h. Sun. 15.00–08.00. – **V.** by letter.
126) **Sunwapta Broadc. Co. Ltd.,** Postal St. "E", Edmonton, Al. – **L.P.**: Dir. Gen.: G. R. A. Rice. – 12.30–08.00(Sat. 09.00). – **V.** by letter.
127) **Cape Breton Broadcasters Ltd.,** Charlotte Str., Sydney, NS. – **L.P.**: Gen. Mgr.: N. Nathanson. – **D. Prgr.**: 10.50–04.00. – **N.**: 10.50, 11.25, 11.55, 12.40, 13.00, 14.00, 15.00, 16.15, 17.00, 18.55, 21.30, 22.15, 23.20, 00.55, 04.00. – **ANN.**: "CJCB Radio in Sydney. The Industrial Heart of the Maritimes. The Steel City". – **V.** by QSL-card.
128) **CJMS Radio-Montreal Ltd.,** 1700, rue Berri, Montreal, Qu. – **L.P.**: Dir. Gen.: R. Crépault. – **D. Prgr.**: **French:** 24 h. – **V.** by letter.
129) **CKCV Ltee,** 978 John Str., Quebec. – **D. Prgr.**: W. 11.00–05.00. Sun. 13.00–05.00. – 130) **C.H.I.Q. Limited,** Hamilton, O. – 24 h.
131) **Southern Manitoba Broadc. Co. Ltd.,** Box 1000, Altona, Al. – **L.P.**: Dir. Gen.: W. R. Kroeker. – **D. Prgr.**: Daytime only. – **V.** by QSL-card and letter.
132) **London Broadcasters Ltd.,** 343 Richmond Str., London, O. – **L.P.**: Gen. Mgr.: D. M. E. Hamilton. – **D. Prgr.**: W. 24 h. exc. Mo. 05.05–10.45. – **V.** by letter.
133) **CKOY Ltd.,** 635 Richmond Str., Ottawa, O. – **D. Prgr.**: 24 h.
134) **C.H.G.B. Ltd.,** Rue Painchaud, Saint-Anne-dela-Pocatiere, Qu. – **D. Prgr.**: 10.00–05.00.
135) **Radio Richmond Hill Ltd.,** Richmond Hill, O. – **D. Prgr.**: 24 h.
136) **R. St. CHQM,** Vancouver, BC. – **L.P.**: Pres. & Mg. Dir.: W. E. Bellman. – **D. Prgr.**: 14.00–09.00.
137) **The Lakeland Broadc. Co. Ltd.,** 360 King Str. West, Oshawa, O. – **L.P.**: Dir. Gen.: G. G. Garrison. – **D. Prgr.**: W. 11.00–06.05. Sun. 13.00–05.00. – **V.** by letter.
138) **St. Lawrence Broadc. Co. Ltd.,** 99 Brook Str., Kingston, O. – **D. Prgr.**: W. 24 h. Sun. 12.30–05.00.
139) **The Telephone City Broadcast Ltd.,** 525 Colborne St. East, Brantford, O. – **D. Prgr.**: 10.30(Sun. 11.30)–06.00.
140) **R. CFUN,** 1900 West 4th Ave., Vancouver 9, BC. – **D. Prgr.**: 24 h.
141) **Saskatoon Community Broadc. Ltd.,** Empire Hotel, Saskatoon, Sa. – **D. Prgr.**: W. 13.00–08.00. Sun. 14.00–07.00.
142) **Foster Hewitt Broadc. Ltd.,** 1 Greenville Str., Toronto, O. – **L.P.**: Pres.: F. Hewitt. – **D. Prgr.**: 24 h.
143) **Northwestern Broadcasting Co. Ltd.,** 1721 Main Str., No. Battleford, Sa. – D. Prgr.: W. 13.00–08.05. Sun. 14.30–07.05.
144) **CJOY Limited,** 50 Wyndham St., Guelph, O. – 11.00–06.00.
145) **Standard Broadcasting Co., Ltd.,** Malaspina Hotel, Nanaimo, BC. – **L.P.**: Man. Dir.: C. J. Rudd. – **D. Prgr.**: 14.00–09.00. Sun. 16.00–08.00. – **V.** by QSL-card.
146) **CHVC Ltd.,** 1745 River Rd., Niagara Falls, O. – **L.P.**: Mgr.: A. W. Blakely. – **D. Prgr.**: W. 10.30–05.00. Sun. 12.30–04.15. – **V.** by letter. Rp.

REDIFFUSION INC.

ADDR.: 6301 Park Avenue, Montreal. – **Te.**: CR 6-2501. – **L.P.**: Executive Vice Pres.: L. B. Kiely. Dir. Tec.: R. Chaston. – **D. PRGR.**: 12.00–05.00.
Rediffusion (Lake Superior) Ltd. – Sault Ste. Marie, Ontario. – **L.P.**: Mgr.: R. Ward.
Argenteuil Cable Inc.: 6301 Park Avenue, Montreal. – **L.P.**: Pres.: L. B. Kiely. Mgr.: R. Lunn.

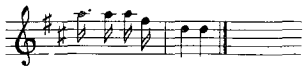
GREENLAND (Danish Territory)

L.T.: Ea. Coast: GMT÷2 h, W Coast: GMT÷3 h, Thule area: GMT÷4 h – **Pr. L.**: Greenlandic, Danish.

GRØNLANDS RADIOFONI (Go.)

ADDR.: Grønlands Radiofoni, Godthåb – **Cable**: Radiofoni. **Te.**: 262. **L.P.**: Dir. Broadc.: Fr. Nielsen.
STATIONS: (Systems: Brown Boveri, Amplidan, Storno).
Godthåb 570 kc 526 m 25 kW – Godhavn 650 kc 461.5 m 5 kW Frederikshåb 820 kc 365.9 m 5 kW – Godthåb FM 97.2 Mc 0.25 kW
HOME SCE.: W 10.30–11.20, 15.00–16.05, 20.30–02.05. Sun 11.30–12.30, 15.00–02.05.
N.: W 15.30, 21.45. Sun: 22.00 – **Wrp.**: W: 10.40, 16.00, 21.15, 02.00. Sun: 12.25, 16.25, 22.30, 02.00 – **Prgr.s in Norwegian:** Sun. 19.00–20.00 (only 1/6–1/10) – **In Faroese:** 20.00–12.00 (only 1/6–1/10) – **For Schools:** Mo, Tues, Wed 13.00–14.30, 16.10–16.40.
ANN.: "Kalâtdlit-nunâta rådiua – Grønlands radio..." – **V.** by letter or card. Rp. – **F.PL.**: sw.-st. in 1964.

INT.-SIG.: played on celeste.



ARMED FORCES RADIO & TV SERVICE: see USA

SAINT PIERRE ET MIQUELON (French)

L.T.: GMT – 3 h – Pr. L.: French.

RADIO ST. PIERRE (Go.)

FI.: By R. diff. Télévision Française (Paris) – ADDR.: Service de la Radiodiffusion Télévision Française. St. Pierre et Miquelon. Cable: RTF, St. Pierre. Te.: 051 – L.P.: Dir.: J. Guerlais. Dir. Tec.: L. Langlois.

STATION (System TRT): 1375 kc 218.2 m 1 kW.

HOME SCE. in French: W 10.00–12.00, 15.00–16.30 (Thurs, Sat 18.00), 21.30–01.00 (Sat 02.00), Sun 13.00–18.00, 21.30–02.00 – N.: 1000 (W), 15.25, 23.05 – Wrp.: 15.35, 23.01, 23.30 – T.S.: 15.00, 16.00, 18.30, 20.00 – L.L.: (English): Sat 21.00.

ANN.: "Ici St. Pierre et Miquelon-Radiodiffusion Télévision Française" – V. by letter – F.PL.: Weekly prgr. in English. Power 4 kW.

UNITED STATES OF AMERICA

L.T.: See World Time Map and Table – Pr.L.: English.

VOICE OF AMERICA (Go.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

ADDR.: Voice of America, U.S. Information Agency, 330 Independence Av., S.W. Washington 25, D.C. – L.P.: Dir. US Information Agency: Edward R. Murrow. Dir. Broadc. Sce.: Henry Loomis. Prgr. Mgr.: Alexander A. Klieforth. Engineering Mgr.: Edgar Martin. Dir. TV Sce.: Charles N. Hill.

STATIONS:

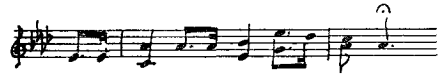
KCBR (50/100/200 kW), Columbia Broadcasting System, Inc., Delano, California.
KNBH (50/100/200 kW), National Broadcasting Company, Inc., Dixon, California.
WBOU (50 kW), National Broadcasting Company, Inc., Bound Brook, New Jersey.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Brentwood, New York.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Wayne, New Jersey.
WGEO (25/50/100 kW), General Electric Company, Schenectady, New York.
WLWO (110 kW), Crosley Broadcasting Corporation, Bethany, Ohio.

Station	kc	m	Station	kc	m	Station	kc	m
WBOU	5965	50.20	WBOU	11805	25.41	KNBH	15405	19.47
KCBR	5965	50.28	WLWO	11805	25.41	WBOU	15410	19.47
KNBH	5985	50.13	WGEO	11830	25.36	WLWO	17710	16.94
WDSI	5995	50.04	KNBH	11835	25.35	KCBR	17735	16.92
WLWO	6025	49.79	KCBR	11870	25.27	KCBR	17765	16.89
KCBR	6040	49.67	KNBH	11870	25.27	WBOU	17780	16.87
KNBH	6085	49.30	WBOU	11880	25.25	WLWO	17795	16.86
KNBH	6145	48.82	WLWO	11880	25.25	WLWO	17800	16.85
WDSI	6180	48.54	WDSI	11900	25.21	KCBR	17820	16.84
KCBR	6185	48.50	WBOU	11905	25.20	WBOU	17830	16.83
WLWO	6190	48.47	KCBR	15125	19.83	WDSI	17830	16.83
WLWO	9525	31.50	WLWO	15130	19.83	WGEO	17830	16.83
KCBR	9530	31.48	KCBR	15130	19.83	KNBH	17850	16.81
KNBH	9545	31.43	WBOU	15135	19.82	WBOU	17855	16.80
KCBR	9600	31.25	KCBR	15150	19.80	WBOU	17870	16.79
WBOU	9615	31.20	WLWO	15195	19.74	KCBR	21460	13.98
WLWO	9650	31.09	KCBR	15210	19.72	WLWO	21485	13.96
KCBR	9655	31.07	WDSI	15215	19.71	WLWO	21510	13.94
KNBH	9665	31.04	WDSI	15235	19.69	WBOU	21540	13.93
WBOU	9670	31.02	WLWO	15250	19.67	WBOU	21570	13.91
KNBH	9700	30.93	WDSI	15270	19.67	WGEO	21590	13.90
WLWO	9710	30.90	WBOU	15280	19.63	WLWO	21610	13.88
WLWO	9740	30.80	WDSI	15290	19.62	WDSI	21645	13.86
WBOU	9750	30.77	KCBR	15310	19.60	KNBH	21650	13.86
WDSI	9755	30.76	WBOU	15325	19.58	WDSI	21740	13.80
WLWO	9770	30.71	WGEO	15330	19.57	KCBR	21745	13.80
WLWO	11770	25.49	WLWO	15355	19.53			
KCBR	11790	25.45	WLWO	15405	19.47			

RELAY STATIONS:
For frequencies of the relay stations, refer to the individual countries; Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Ryukyu Islands, Philippines, Liberia.

ANNOUNCEMENT:
Each program ends with these words spoken in English: "This program has come to you from the United States of America". The station identification is then announced in English.

INTERVAL SIGNAL:
Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission. At the beginning of a transmission the sign on announcements is followed by 3 minutes of musical symbol made up of alternate 5 seconds music and 5 seconds silence.



VERIFICATION by QSL-card. No return postage required.

F.PL.: The Voice of America is completing two new stations to be on the air in 1963. They are located at Greenville, North Carolina where there will be six 500 kW, six 250 kW and six 50 kW shortwave transmitters to improve VOA's signal to Europe, Africa, the Middle East and Latin America; and the other at Monrovia, Liberia to consist of six 250 kW and two 50 kW shortwave transmitters. The primary purpose of the latter station is to reach all of Africa and to give supplemental coverage to parts of Central Europe and the Middle East. Until it is finished, the VOA will be broadcasting via three 50 kW transportable shortwave transmitters temporarily set up on the Monrovia site. Other planned construction includes increasing the power of the station in the United Kingdom to six 250 kW shortwave transmitters and erecting a transmitting station on the Island of Rhodes to replace the floating relay station, the "Courier". This last station will have one 150 kW medium wave transmitter and two 50 kW shortwave transmitters.

To Europe

ALBANIAN	U.S.m.b.	Relay Stations
*05.30–06.00	—	49
20.00–20.30	19, 25, 31	31, 41, 49, 379
22.00–22.30	—	31, 41
ARMENIAN		
14.30–15.00	13, 16, 19	13, 16, 19, 31, 41
*15.30–16.00	—	16, 19, 25, 31
BULGARIAN		
04.15–04.30	31, 49	31, 41, 49
16.30–17.00	13, 16, 19	19, 25, 31, 49
*18.30–19.00	—	379
19.30–20.00	16, 19, 25	25, 31, 41, 49, 379
CZECH-SLOVAK		
04.30–04.45	31, 49	31, 41, 49, 75, 251
05.30–05.45	25, 31, 49	31, 41, 49
20.30–21.00	19, 25, 31	25, 31, 41, 49
22.30–23.00	19, 25, 31	31, 41, 49, 251
ESTONIAN		
*02.00–02.30	—	31, 41, 49
18.30–19.00	13, 16, 19	25, 31, 41, 49
*20.00–20.30	—	251
FRENCH		
20.00–20.30	16, 19, 25	—
GEORGIAN		
14.00–14.30	13, 16, 19	13, 16, 19
*15.00–15.30	—	16, 19, 31, 41
GERMAN		
17.00–17.15	13, 16, 19	—
19.15–19.30	13, 16, 19	1734
GREEK		
07.30–07.45	—	25, 41
17.15–17.30	13, 16, 19	19, 25, 31, 379
HUNGARIAN		
05.15–05.30	31, 49	31, 41, 49
06.15–06.30	31, 49	31, 41, 49
18.30–19.00	13, 16, 19	25, 31, 41, 49
21.30–22.00	19, 25, 31	31, 41, 49
*22.30–23.00	—	379
*23.00–23.30	—	31, 41, 49, 251
LATVIAN		
*02.00–02.30	—	31, 41, 49
17.30–18.00	13, 16, 19	19, 25, 31, 41, 49
*20.30–21.00	—	251
LITHUANIAN		
*03.00–03.30	—	31, 41, 49
16.30–17.00	13, 16, 19	19, 25, 31, 41, 49
*18.30–19.00	—	251
POLISH		
05.00–05.15	31, 49	31, 41, 49

06.00–06.15	31, 49	31, 41, 49
16.00–16.30	13, 16, 19	19, 25, 31, 41
19.30–20.00	16, 19, 25	25, 31, 41, 49, 251, 1734
*21.30–22.00	—	31, 41, 49, 251, 1734
RUMANIAN		
04.00–04.15	31, 49	31, 41, 49
17.30–18.00	13, 16, 19	19, 25, 31, 41, 49, 379
20.30–21.00	19, 25, 31	25, 31, 41, 49, 379
RUSSIAN		
02.30–03.00	31, 49	31, 41, 49
*03.30–04.00	—	31, 41, 49
*04.30–05.00	—	31, 41, 49
*06.30–07.00	—	19, 25, 31, 41, 49
15.00–15.30	13, 16, 19	13, 16, 19, 25, 31
*16.00–16.30	—	16, 19, 25, 31, 41, 49
*17.00–17.30	—	19, 25, 31, 41, 49
18.00–18.30	13, 16, 19	19, 25, 31, 41, 49
*19.00–19.30	—	19, 25, 31, 41, 49
*20.00–20.30	—	25, 31, 41, 49
21.00–21.30	19, 25, 31	31, 41, 49, 1734
*22.00–22.30	—	31, 41, 49
SERBO-CROAT		
04.45–05.00	31, 49	31, 41, 49, 75, 251
*05.45–06.00	—	31, 41, 49
19.00–19.30	13, 16, 19	25, 31, 41, 49, 251, 379
21.00–21.15	19, 25, 31	31, 41, 49, 251
*22.15–22.30	—	379
SLOVENE		
17.00–17.15	13, 16, 19	16, 19, 25, 31
*21.15–21.30	19, 25, 31	31, 41, 49, 251
UKRAINIAN		
*03.30–04.00	—	31, 41, 49
15.30–16.00	13, 16, 19	16, 19, 25, 31, 49

To Africa

FRENCH	**U.S.m.b.**	**Relay Stations**
19.30–20.00	13, 16	19, 25, 31
21.30–22.00	16, 19	25, 31
SWAHILI		
03.00–03.30	—	31

To Near- and Middle East

ARABIC	**U.S.m.b.**	**Relay Stations**
03.30–04.00	31, 49	—
04.00–06.00	—	31, 41, 49, 238
17.00–21.00	—	31, 41, 49, 238
TURKISH		
16.30–17.00	13, 16, 19	19, 31, 41, 49, 238
*17.30–18.00	—	19, 25, 31

To South Asia

BENGALI	**U.S.m.b.**	**Relay Stations**
(To Pakistan)		
14.30–14.45	—	19, 25
14.45–15.00	13, 16, 19	13, 16, 19, 25
BENGALI		
(To India)		
13.30–14.00	13, 16, 19	13, 16, 19, 25, 41
HINDI		
15.30–16.00	13, 16, 19	13, 16, 19, 25, 41
TAMIL		
14.30–14.45	13, 16, 19	13, 16, 41
14.45–15.00	—	41
URDU		
15.00–15.30	13, 16, 19	13, 16, 25
*16.00–16.30	—	19, 25

To Far East

AMOY	**U.S.m.b.**	**Relay Stations**
10.00–10.30	31, 49	19, 25, 31, 41, 49
*11.00–11.30	—	25, 31, 41
*12.30–13.00	—	19
*15.00–15.30	—	263
BURMESE		
09.00–09.30	31, 49	—
12.30–13.00	31, 49	25
13.00–13.30	—	25
*14.30–15.30	—	19, 25
CAMBODIAN		
13.30–14.00	31, 49	19, 25, 263
23.00–00.00	13, 16	25, 31
CANTONESE		
12.00–12.30	31, 49	19, 25, 31, 41, 263
*13.00–13.30	—	31, 41
*14.00–14.30	—	31, 41
*15.00–15.30	—	31, 41
22.30–23.00	13, 16, 19	31, 41, 49, 326
*23.30–00.00	—	41, 49
INDONESIAN		
11.00–12.00	31, 49	19, 49
*13.00–14.00	—	19, 49
JAPANESE		
21.30–22.00	16, 19	49
*23.30–00.00	16	—
*12.30–13.00	—	41
KOREAN		
11.30–12.00	31, 49	31, 41
*13.00–13.30	—	41, 49, 255
*14.00–14.30	—	49
21.30–22.30	16, 19	41, 49
*22.30–23.00	—	41, 49
LAO		
13.00–13.30	31, 49	19, 263
00.00–00.30	13, 16	19, 25, 31
MANDARIN		
10.30–11.00	31, 49	19, 25, 31, 41, 49
*11.30–12.00	—	25, 31, 41, 255, 263
*12.30–13.00	—	31, 41, 255
*13.30–14.00	—	31, 41, 49, 255
14.30–15.00	25, 31, 49	31, 41, 49, 255, 263
*15.30–16.00	—	31, 41, 255
22.00–22.30	13, 16, 19	31, 41, 49, 326
*23.00–23.30	—	41, 49
*00.30–01.00	—	19, 25
RUSSIAN		
09.30–11.00	31, 49	19, 25, 31, 41
*12.00–12.30	—	31, 41, 255
15.00–15.30	25, 31, 49	31, 41, 49, 255
*20.30–21.00	—	41, 49
THAI		
14.00–14.30	31, 49	19, 25, 263
23.00–23.30	13, 16, 19	25, 31
*00.30–01.00	—	16, 19
UKRAINIAN		
15.30–16.00	25, 31, 49	—
*20.00–20.30	—	41, 49
VIETNAMESE		
04.30–05.00	25, 31	19, 25
12.30–13.00	31, 49	19, 25, 49, 263
*15.30–16.00	—	19, 263
22.30–23.00	13, 16	25, 31, 41

To Latin America

SPANISH	**U.S. (kc)**
11.00–13.00	6190, 9525, 11890, 15195
13.00–14.00	11890, 15195
23.00–02.00	6190, 9670, 11770, 15215, 15355
02.00–04.00	6190, 9530, 9670, 11730, 11770,
04.00–04.45	6190, 11770
PORTUGUESE	
22.00–01.00	9525, 11905, 15325

Programs in English

TO EUROPE

Times	**U.S. (kc)**	**Relay Stations**
03.00–03.30	5995, 9755	6040 M, 6080, 7200
*04.00–04.30	—	1196, 3980, 5960 6040 M, 6080, 7200 T
05.00–06.00	6180, 9740	1196, 3980, 5960, 6040 M, 6080, 7200 T
06.00–07.30	6180, 9740	1196, 3980, 5960, 6040 M, 6080, 7200, 9635 T 1259, 6185, 7130 R
07.30–0745(Sun)	6180, 9740	9545 M, 6080, 7200, 9635 T
13.00–13.30	15410, 17780, 21540	15330, 15430 T
13.30–14.00	—	15330, 15430 T
14.00–14.30	15410, 17780, 21570	15330, 15430 T
15.00–15.30	15195, 17830, 21590	15330, 3980 M
16.00–16.30	15235, 21740	15330 T, 3980 M, 9715 TH
17.00–18.00	15235, 21740	6080, 9760 T, 173, 1196, 3980, 6185 TH
18.00–18.30	15235, 21740	6080, 9760 T, 173, 1196 3980 M, 791, 6185 TH
18.30–19.15	15235, 21740	6080, 9760 T 173, (to 19.30), 3980 M, 6185 TH
19.15–20.00(M)—		6080, 9760 T, 3980, 5975 M, 6185 TH

20.00–21.15	11900, 15235	6080, 9760 T, 3980, 5975 M, 6185 TH
21.15–22.00(M)	—	6080, 9760 T, 3980, M 6185 TH
22.00–22.30	—	6080 T, 3980 M, 6185 TH
TO EAST AFRICA		
03.00–03.30	—	9545, 9645 L
04.00–04.30	—	9545, 9645 L
05.00–07.30	—	17780 M
15.00–16.30	—	15225 M, 15285 L
17.00–21.00	—	11940 M (also 17750 C, 18.00–18.30)
TO WEST AND CENTRAL AFRICA		
05.00–07.30 (Sun to 07.45)	6025, 9770	
15.00–16.30	—	15435 B, 15285 L
17.00–19.00	17710, 21610	11770 L, 15435 B (to 18.00)
19.00–19.30	17710, 21610	11770 L
20.00–21.30	17710, 21610	9635 B, 7195 L, 11770 M
22.00–22.30	15355, 17710	9635 B, 7195 L, 9555, 11770 M
TO MIDDLE EAST		
03.00–03.30	—	6020 M, 7255, 9615 T
*04.00–04.30	—	6020 M
05.00–06.00	—	6020 M
06.00–07.30 (Sun to 07.45)	—	6020 M, 7255, 15185 T 1259, 6185, 7130 R
12.00–13.00	—	15395 M, 17855, 21455 T
13.00–13.30	—	15395 M, 15290, 17855, 21455 T
13.30–14.00	—	15395 M, 15290 T
14.00–14.30	—	15290, 17855, 21455 T, 7130, 9530 R
15.00–15.30	—	15290 T, 15305 TH
16.00–16.30	—	17855 T, 1259, 6015, 7130 R
16.30–17.00	—	17855 T, 7205 TH
17.00–21.00	—	9530 M, 7205 TH
21.00–22.30 (Sun to 22.45)	—	9530 M, 7205 TH, 1259, 6015, 7130 R
TO SOUTH ASIA		
01.00–03.30	—	7275, 11835 C, also 17845 P 01.00–01.30, 02.00–02.30
12.00–13.30	—	7110, 11960, 15415 C
14.00–14.30	—	7110, 11960, 15415 C
15.00–15.30	—	7110, 15415 C
15.00–16.00(M)	—	11900 P
16.00–16.30	—	7110 C, 11900 P
16.30–17.15(M)	—	11900 P
16.30–18.00	—	7110, 11960, 15415 C
TO FAR EAST		
09.00–11.30	6145, 9545	6075 H, 6010, 7155 OK, 11785, 15335 P
11.30–12.00	—	6075 H, 6010 OK, 920, 11785, 15335 P
12.00–12.30	6145, 9545	6075 H, 6010, 7155 OK, 920, 6125, 11785, 15335 P
12.30–13.00	—	6075 H, 6010 OK, 920, 11785, 15335 P
13.00–16.00	—	6075 H, 6010, 7155 OK, 920, 11785, 15335 P
13.00–13.30 14.00–14.30 15.00–15.15	6145, 9545	
16.00–16.30	6145, 9545, 9600, 11835	6075 H, 1178, 6010, 6170, 7155, 7235 OK, 920, 1140, 6125, 9535, 9565, 11730, 11785, 11900, 15205, 15250, 15335 P
21.00–21.30	—	6075, 6145, 7160 OK, 6185, 7135 P
22.00–22.30	15405, 17850	6075 OK, 7135, 6185, 7220 P
23.00–23.30	17765, 21745	6075, 6145 OK, 920, 7220, 9580 P
00.00–00.30	—	11960, 15210 OK, 15155, 15360, 17745 P
01.00–01.30	17735, 17765, 21745	11960, 15210 OK, 15155, 15185, 15250, 15360, 17745 P
TO OCEANIA	**U.S. (kc)**	**Relay Stations**
09.00–14.15	5985, 9665	9650 H
14.15–16.30		9650 H
22.00–22.30	21650	
TO LATIN AMERICA		
	U.S. kc	
23.00–01.00	6150, 9650, 9750, 15270	
01.00–03.35 Mo to 03.45	6150, 9650, 9750, 15270	

Transmitter Abbreviations: R=Rhodes. B=BBC, London. C=Colombo. H=Honolulu. L=Liberia. M=Munich. OK=Okinawa. P=Philippines (Malolos & Poro). T=Tangier. TH=Thessaloniki.
Program Abbreviations: M=Music USA. R=Repeat of last previous origination.
N. in English, Portuguese, Spanish: on the h.
N. in French, Russian: at the beginning of prgr.
VOA Amateur Radio Program
Sun 07.30–07.45: To Europe on 6080, 7200, 9635 T, 6180 (WDSI); to No. Africa 6025, 9740 (WLWO): to So. Europe/M. East 9545 M; to M. East 7255, 15185 T; to We. Africa 6025, 9770 (WLWO): to Ea. Africa 17780 kc M – **Sun 07.45–08.00:** To Oceania on 5985, 9665 (KNBH); to Far East 6145, 9545 kc (KNBH) – **Sun 08.45–09.00:** To Ea. Asia on 6010, 7155, 7235, 9620 (OK), 11785, 11895, 15205, 15250 P, 6075 (H); to Oceania 9650 (H); to So. Ea. Asia 15335 kc (P) – **Sun 22.30–22.45:** To Europe on 3980 (M), 6185 (TH); to M. East 1259, 6015, 7130 (R), 7205 (TH), 9530 (M); to C. Africa 11770 (M); to We. Africa 11940 (M), 17710, 21610 kc (WLWO) – **Mo 03.30–03.45:** To Latin America on 6150, 9650 (WLWO) 9750, 11955 (WBOU), 15270 kc (WDSI).

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR.: Directorate of Armed Forces Information and Education, Washington 23, D.C. – **FI.:** By State (Dept. of Defense).
This office exercises over-all policy control of the Armed Forces Radio and Television Service. The mission of AFRTS is to keep U.S. Service men and women stationed outside the States the best informed service personnel in the world on current events. **All broadcasts are in English.** News, sports and other timely matter is beamed overseas directly by ten powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial radio and tv. networks. N. is compiled from the wires of A.P. and U.P.I. and include voice actuality and "from the scene" report segments. Regular shortwave prgr's are presented daily from both Los Angeles and New York City, over the tr's of the V.O.A. The operational headquarters of AFRTS, at Los Angeles, ships undated radio and tv. prgrs. on transcription and film, respectively, to overseas stations, and controls the Pacific Shortwave Service. Officer in Charge: Lt. Colonel Lother B. Sibert, USA.
PACIFIC SERVICE (from Los Angeles).
ADDR.: AFRTS Shortwave 1016 No. McCadden Place, Los Angeles 38, Calif. **Te.:** Hollywood 23301 – **L.P.:** Officer in charge: Lt. Colonel L. B. Sibert. (All communications must be received through officer in charge).
D. PRGR.: 23.30–16.30.

Call	kc	m	kW	Beam	h of tr.
KCBR3	5965	50.28	50	Japan, Korea	07.30–15.00
KCBR3	5965	50.28	50	Alaska/Aleutians	15.00–16.30
KCBR4	6040	49.67	100	Alaska/Aleutians	06.00–11.45
KCBR2	9700	30.93	50	Alaska/Aleutians	04.00–07.00
KCBR2	9700	30.93	50	Philippines/Marianas	07.00–15.00
KCBR2	9700	30.93	50	Japan/Korea	15.00–16.30
KCBR4	11790	25.45	100	Caribbean	12.00–13.15
KCBR3	11870	25.27	50	Japan/Korea	02.45–07.15
KCBR5	15210	19.72	50	Philippines/Marianas	02.00–07.00
KCBR2	15310	19.60	50	Alaska/Aleutians	23.30–03.45
KCBR4	15310	19.60	100	Caribbean	13.30–15.00
Okinawa	15370	19.52	35	So. Ea. Asia	08.00–16.30
KCBR3	17820	16.84	50	Japan/Korea	23.30–02.30

N.: Hourly from 23.00–16.00. **Armed Forces Digest:** W 00.30, 08.15. **Conference Period:** D 23.30, 08.05, 16.15.
ANN.: At the end of prgr.: "This is AFRTS Shortwave at Los Angeles". Hourly: "This is the United States Armed Forces Radio and Television Service, the Voice of Information and Education, broadcasting on VOA transmitter KCBR at Delano, California. On-the-scene reports and voices of the world's news makers highlight up-to-the-minute national and international news throughout the broadcast day" – **V.** by QSL-card – Freq.s are announced thirty minutes past each hour.
EUROPEAN SERVICE (from New York).
ADDR.: Armed Forces Press, Radio and Television Service, 250 West 57th Street, New York 19. N.Y. – **L.P.:** Officer-in-charge: Lt. Col. John N. Bornholdt.
D. PRGR.: 50 kW – Period: All year.

Call	kc	m	kW	Beam	h.of tr.
Munich	9765	30.72	50	Mid. East	17.30–22.45
WDSI-1	11910	25.18	50	Europe	19.00–22.45
Munich	15185	19.75	50	Mid. East	15.15–17.00
WDSI-3	15270	19.65	50	Caribbean	14.30–19.00
WDSI-3	15290	19.62	50	Caribbean	19.00–22.45
WBOU-1	15410	19.47	50	Europe	18.00–22.45
WBOU-5	17780	16.87	50	Europe	14.30–22.45
WDSI-1	21645	13.86	50	Europe	17.15(Sat/Sun14.30)–18.45

N.: 15.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00.
"New York Calling" (conference period): D 14.30, 17.55.

ANN.: "This is the United Armed Forces Radio Service in New York City" – V. by QSL-card – PUB.: Prgr. sched. published quarterly, available on request.

A.F.R.T.S.'s OUTLETS: BROADCASTING

Total outlets: Radio 125, TV with studios 28, FM 39, Carrier Current 25, Audio System 10, TV rel. 5, Sw. 3.

Abreviations: A = Army – AFKN = American Forces Korea Network – FEN = Far East Network – N = Navy – RCAF = Royal Canadian Air Force – AF = Air Force – Fo = Fort.

The greater majority of the stations operate from 06.00–24.00 L.T.

NORTH ATLANTIC

	Sce.	kc	m
Argentia	N	1480	0.25
Canada			
Goose Bay RCAF		1340	0.25
N. Foundland			
Stephenville	AF	1490	0.05
Azores			
Terceira	AF	1500	0.25
Greenland			
Sonderstrom	AF	1420	0.25
Thule	AF	1425	1
Thule	AF	1210	0.25
Iceland			
Keflavik	N	1484	0.25
ALASKA			
Adak	N	890	0.25
Elmendorf	AF	860	0.05
Eielson	AF	860	0.05
Fo. Greely	A	980	0.25
Kodiak	N	960	0.25
Shemya	AF	1240	0.1
Sparrevohn	AF	1550	0.1
Wildwood	A	1520	0.01
Murphy Dome	AF	1570	0.01
CARIBBEAN AREA			
Fo. Clayton[1]	A	790	5
Fo. Brook[2]	A	1470	0.05
Trinidad	N	1550	1
Ramey[2]	AF	780	0.05
Guantanamo[3]	N	1340	1

[1]) Panama [2]) Puerto Rico [3]) Cuba.

NORTH AFRICAN AREA

Libya			
Tripoli	AF	990	1
Morocco			
P. Lyautey	N	1484	0.25
Sidi Slimane	AF	1594	0.25
Nousseur	AF	1594	0.25
Ben Guerir	AF	1594	0.25
MIDDLE EAST AREA			
Eritrea			
Asmara	A	1480	0.25
Crete			
Iraklion	AF	1570	0.25
Iran			
Teheran	A	630	0.25
Turkey			
Adana	AF	850	0.025
EUROPE			
Germany (see Germany)			
Greece			
Athens	AF	1580	0.25
Italy			
Verona	A	540	0.005
Vicenza	A	540	0.005
FAR EAST AREA			
Japan (FEN)			
Tokyo	AF	810	10
		6165	
Tokyo s.w.	AF	11750	10
		15260	
Misawa	AF	1580	0.25
Wakkanai	AF	1590	0.1
Iwakuni	AF	1580	1
Itazuke	AF	1550	2.5
Chitose	AF	1570	0.25
Iwo Jima	AF	1500	0.1
Ryukyu Isl.			
Okinawa	AF	650	10
So. Korea (AFKN)			
Taegu	A	1360	1
Pusan	A	1250	1
Seoul	A	560	5
Kunsan	A	1440	0.25
Osan	A	1060	0.25
Tongduchon	A	1200	1
Munsan-Ni	A	1510	1
Unchon-Ni		1400	1
Taiwan (see also Taiwan)			
Taiwan	N	1560	1
Taiwan s.w.	N	7215	1
Philippines			
Clark AFB	AF	1220	1
Subic Bay	N	1520	0.25
Sangley Point	N	1300	0.25
Camp John Hay	AF	1300	0.25
PACIFIC AREA			
Eniwetok, M.I.	N	1385	0.25
Johnston Isl.	AF	1250	0.1
Kwajalein	N	1220	1
Midway Isl.	N	900	0.25
Andersen AFB, Guam	AF	1090	0.05

FM: France: see France–Spain: Moron, Torrejon, Zaragoza (AF), all on 89.7 Mc 1 kW each.

PRIVATE STATIONS

FEDERAL COMMUNICATIONS COMMISSION. An independent Federal agency composed of seven Commissioners appointed by the President, by and with the advice and consent of the Senate. One of its major activities is the general regulation of broadcasting – now visual as well as aural. This regulation, largely technical in nature, may be divided into two phases: 1) The allocation of spectrum space to the different types of broadcast services. 2) Considerat ons to build and operate individual stations.

Call letters. – International agreement provides for the national identification of the radio station by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. United States stations use the initial letters K, N, and W, exclusively, and part of the A series. Broadcast stations are assigned call letters beginning with K or W. Generally speaking, those beginning with K are assigned to stations west of the Mississippi River and in the territories and possessions, while W is assigned to broadcast stations east of the Mississippi.

Number of Broadcasts Stations in the USA as of July 30th, 1962:

	Authorized	Licensed	Operating
A.M. Comm.	3892	3590	52
F.M. Comm.	1198	958	1027
F.M. Educational	210	192	202
TV Comm.	657	505	562
TV Educational	81	43	58

Also, 1046 TV-repeater and 1496 TV translator stations are authorized to pick up and rebroadcast programs of regular TV-stations.

EDUCATIONAL STATIONS (non.-comm.)

ADDR.: Office of Education, Washington 25, D.C. – **L.P.:** Chief Radio-Television: John F. White.

Educational and Television Center: Coliseum Bldg., Columbus Circle, New York City, N.Y.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB).

FI.: By membership fees. Also some support from outside sources for special research projects. The national independent professional association, which since 1925 has represented the interests and needs of educational television and radio broadcasters, represents appr. 75% of the educational stations and production centers of the United States (appr. 90% exc. those identified as religious st.).

ADDR.: Headquarters: 1346 Connecticut Avenue, N.W., Washington 6, D.C. **Te.:** 667-6000. Publications and Network Offices: 119 Gregory Hall, Urbana, Illinois, **Te.:** 338-0580.

L.P.: Pres. William G. Harley, Vice-Pres.: Harold E. Hill. Stations: 185 educational institutions and organizations owning and operating a total of 244 educational radio and TV stations.

Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public Sce.'s, radio and TV st.'s and production centers. Publish a monthly Newsletter, a semi-monthly Washington Report, and a bi-monthly Journal. The NAEB also operates a radio network which duplicates via tape and distributes to members st.'s ten hours of programming per week. At present there are some 118 st.'s in this network. Exchanges of prgr.'s with other nations are welcomed. It also actively cooperates with various international organizations (European Broadcasting Union, UNESCO etc.), and the national systems of various other countries. According to federal communications commission regulations, non-comm. educational FM st.'s have no restrictions on transmission time.

COMMERCIAL STATIONS

NATIONAL ASSOCIATION OF BROADCASTERS

ADDR.: 1771 N. Street N. W. Washington 6, D.C. – **Te.:** Decatur 2–9300.

Purpose: The purpose of the Association is to foster and promote the development of the arts of aural and visual broadc. in all its forms; to protect its members in every lawful and proper manner from injustices; to do all things necessary and proper to encourage customs and practices which will strengthen and maintain the broadc. industry to the end that it may best serve the public.

L.P.: Chairman: C. R. McCollough. Pres.: LeRoy Collins Sec-Treasurer: E. E. Revercomb.

Members as of June 1 1962: AM Radio 1828. – FM Radio 648 .– TV stations 388. – Radio Networks 4. – Television Networks 3.

M. W. Stations operating with a power of 10 kW and above.

The time each station is authorized to operate is indicated in the list. Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two-thirds of hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h.

Abbreviations: D: Daytime operation. LS = Local Sunset. N: Night. L + Limited Time. + = CP granted for increase of power. CP = Construction permit. a) 24 h. Al = Alabama. Ala = Alaska. Ariz = Arizona. Ark = Arkansas. Cal = California. Colo = Colorado. D = Dakota. Fla = Florida. Ga = Georgia. Id = Idaho. Ill = Illinois. Ind = Indiana. Ia = Iowa. Kan = Kansas. Ky = Kentucky. La = Louisiana. Md = Maryland. Mo = Missouri. Mihc = Michigan. Mass = Massachusetts. Minn = Minnesota. N.C. = No. Carolina. Neb = Nebraska. N.Y. = New York. O = Ohio. Okla = Oklahoma. Or = Oregon. Pa = Pennsylvania. P.R. = Puerto Rico. S.C. = So. Carolina. Tex = Texas. Tenn = Tennessee. Va = Virginia. Wisc = Wisconsin. U = Utah. ABC = American Broadc. Co., CBS = Columbia Broadc. System; Keystone Broadc. System; MBC = Mutual Broadc. Co.; NBC = National Broadc. Co.

Call	kW		Call	kW	
540			WCBM	10	Baltimore, Md. CBS a)
WGTO	50	Cypres Gardens, Fla. D	WNAC	50	Boston, Mass. a)
640			WPTF	50	Raleigh, N.C. NBC a)
KFI	50	LosAngeles, NBCa)	WMPS	10	Memphis, Tenn. a)
650			KENS	50	LS/10N SanAntonio, Tex. CBS a)
KORL	10	Honolul.,Haw.M a)	WAPA	10	S. Juan, P.R. ABC, MBS a)
WSM	50	Nashville, Tenn. NBC a)	**690**		
660			WAPE	25	Jacksonville, Fla. D
WNBC	50	New York, N.Y. NBC a)	KULA	10	Honolulu, Haw. ABC a)
WESC	10	LS Greenville, S.C. D	KGGF	10	LS/5N Coffeyville, Kans. ABC a)
670			KHEY	10	El Paso, Tec. a)
WMAQ	50	Chicago, Ill. NBC a)			
680					
KNBC	50	S.Francisco, NBCa)			

USA

Call	kW	
WVOK	50	Birmingham, Ala. D
WCYB	10	Bristol Va. A D
700		
WLW	50	Cincinnati, Ohio ABC, NBC a)
710		
KMPC	50	LS/10N L. Angeles, Cal. a)
WGBS	50	LS/10N Miami, Fla. C a)
KEEL	50	/10/5 Shreveport, La. a)
WHB	10	LS/5N Kansas City, Mo. a)
WOR	50	New York, N.Y. MBC a)
KGNC	10	Amarillo, Tex. NBC a)
KIRO	50	Seattle, Wash. CBS a)
720		
WGN	50	Chicago, Ill. M a)
730		
KFQD	10	Anchorage, CBS a)
740		
KCBS	50	S. Francisco, CBS a)
CBIG	10	Avalon, Calif. D
KTRH	50	Houston, Tex. CBS a)
WPAQ	10	Mt. Airy, N.C. D
750		
WSB	50	Atlanta, Ga. NBCa)
KXL	50	Portland, Ore. a)
KMMJ	10	Grand Island, Neb. ABC D
760		
KGU	10	Honolulu, NBC a)
WJR	50	Detroit, Mich. a)
770		
KOB	50	LS/25N Albuquerque, N.Mex. NBCa)
WABC	50	New York. N.Y. ABC a)
780		
WBBM	50	Chicago, Ill. CBS a)
810		
KGO	50	S. Fransisco, ABCa)
KCMO	50	Kansas City, CBS a)
WGY	50	Schenectad., NBCa)
WKVM	25	San Juan, P.R. a)
820		
WFAA	50	Dallas, Tex. NBCa)
WBAP	50	Fort Worth, NBCa)
830		
WCCO	50	Minneapolis, CBS a)
840		
WHAS	50	Louisville, Ky. C a)
850		—
WYDE	10	Birmingham, Ala a
KOA	50	Denver, Colo. NBC a)
WHDH	50	Boston, Mass. a)
WKIX	10	LS/5N Raleigh, N.C. ABC a)
WJW	10	LS/5N Cleveland, Ohio a)
WJAC	10	Johnstown, Pa. N a)
860		
KTRB	10	LS/1N Modesta, Cal. a)
KOAM	10	LS/5N Pittsburg, NBC a)
WOAY	10	Oak Hill, W. Va. D
870		
WWL	50	New Orleans, CBS a)
880		
WCBS	50	New York, N.Y. CBS a)
890		
WLS	50	Chicago, Ill. ABCa)
900		
KFRB	10	Fairbanks, Alas. a)

Call	kW	
940		
WINZ	50	LS/10N Miami, Fla. a)
WMAZ	50	LS/10N Macon, Ga. CBS a)
KAHU	10	Waipahu, Haw. a)
KIOA	10	LS/5N Des Moines, Iowa. MBS a)
WENC	10	Fayetteville, N.C. MBS a)
WIPR	10	San Juan, P.R. a)
WCPC	50	Houston, Miss. D
950		
KPRC	50	Houston, Tex. NBC a)
990		
KTKT	10	LS/1N Tucson, Ariz. a)
WHOO	10	LS/5N Orlando, Fla. MBS a)
WIBG	50	LS/10N Philadelphia a)
WNOX	10	Knoxville, Tenn. CBS a)
KNIN	10	LS/1N Wichita Falls, Tex. MBS a)
WPRA	10	Mayaguez, P.R. a)
WLKW	50	Providence, R.I. D
1000		
WCFL	50	Chicago, Ill. A a)
KOMO	50	Seattle, ABC a)
1010		
KLRA	10	LS/5N Little Rock, A a)
WMOX	10	LS/1N Meridan, Miss. M a)
WINS	50	New York, N.Y. a)
WZRO	1	CP25 Jacksonville, Beach, Fla. KBS D
KXEN	50	Festus, St. Louis, D
KRVN	25	Lexington, Nebr. D
WGUN	50	Decatur, Ga. D
KSAY	10	San Franc. Calif. D
KAWA	10	Marlin, Texas-WACO, D – two city operation
WINQ	50	Tampa, Florida. D
1020		
KGBS	50	Los Angeles, Cal. a)
KDKA	50	Pittsburg, Pa. a)
1030		
WBZ	50	Boston, Mass. a)
KCTA	50	Corpus Christi, D
1040		
WHO	50	Des Moines, NBC a)
1050		
WHN	50	New York, N.Y. a)
1060		
KPAY	10	Chico, Cal. MBS a)
WNOE	50	LS/5N New Orleans, a)
WRCV	50	Philadelphia, NBC a)
1070		
WAPI	50	D/5N Birmingham, Ala. NBC a)
KNX	50	L. Angeles, CBS a)
WIBC	50	LS/10N Indianapolis a)
KIRL	10	Wichita, Kans. ABC a)
WFLI	10	Lookout Mtn., Tenn. a)
WDIA	50	LS/5N Memphis, Tenn. a)
WKOW	10	LS/5N Madison, Wisc. CBS a)
1080		
KSCO	10	Santa Cruz, Cal. a)
WTIC	50	Hartford, Conn. NBC a)
KWJJ	10	Portland, Ore. ABC a)
KRLD	50	Dallas, Tex. CBS a)

Call	kW	
1090		
KTHS	50	Little Rock, Ark. CBS a)
WBAL	50	Baltimore, Md. NBC a)
KING	50	Seattle, Wash. NBC a)
1100		
KFAX	50	LS/1N S. Francisco, a)
KYW	50	Cleveland, Ohio. a)
WHLI	10	Hempstead N.Y. D
1110		
KFAB	50	Omaha, Nebr. NBC a)
WBT	50	Charlotte, N.C. CBS a)
KRLA	50	LS/10N Pasadena, Cal. a)
WALT	10	Tampa, Fla. D
1120		
KMOX	50	St. Louis, Mo. CBS a)
1130		
KWKH	50	Shreveport, La. C a)
WCAR	50	LS/10N Detroit, Mich. a)
WDGY	50	LS/25N Minneapolis Minn. a)
WNEW	50	New York, N.Y. a)
1140		
KRAK	50	Sacremento, MCSa)
WMIE	10	LS/5N Miami, Fla. a)
KGEM	10	Boise, Id. ABC a)
KSOO	10	LS/5N Sioux Falls, S. Dak. ABC a)
WRVA	50	Richmond, Va. NBC a)
1160		
WJJD	50	Chicago, Ill. a)
KSL	50	Salt Lake City, CBS a)
1170		
WCOV	10	LS/1N Montgomery Ala. CBS a)
KCBQ	50	LS/5N San Diego, Cal. a)
KLOK	10	L/1N San Jose, Cal. a)
KVOO	50	Tulsa, Okla. NBCa)
WWVA	50	Wheeling, W. Va. CBS a)
1180		
WHAM	50	Rochester, N.Y. a)
1190		
WOWO	50	Fort Wayne, Ind. a)
KEX	50	Portland, Ore. a)
KLIF	50	LS/1N Dallas, Tex. a)
WANN	10	Annapolis, Md. D
1200		
WOAI	50	San Antonio, Tex. NBC a)
1210		
WCAU	50	Philadelphia, CBS a)
WKNX	10	Saginaw. Mich. D
1220		
WGAR	50	Cleveland, NBC a)
1500		
KBLA	10	Burbank, Cal. a)

Call	kW	
WTOP		Washington, CBS a)
WJBK		10LS/1N Detroit, Mich. CBS a)
KSTP	50	St. Paul, Minn. NBC a)
KPIR	10	Eugene, Wash. D
1510		
KALF	10	Mesa, Ariz. D
WLAC	50	Nashville, Tenn. CBS a)
KGA	50	Skokane, Wash. a)
WAUX	10	Waukesha, Wisc. D
1520		
KACY	10	Port Hueneme, Cal. a)
WKBW	50	Buffalo, N.Y. a)
KOMA	50	Oklahoma City, Okla. a)
KGON	10	Oregon City, MBS a)
WFYI	10	Mineola, N.Y. D
1530		
KFBK	50	Sacremento, CBS a)
WCKY	50	Cincinnati, Ohio a)
KGBT	50	Harlengen, Tex. CBS a)
1540		
KPOL	50	L. Angeles, MBC a)
KXEL	50	Waterloo, Iowa. ABC a)
WPTR	50	Albany, N.Y. a)
KCUL	50	LS/1N Ft. Worth, Tex. a)
WJMJ		Philadelphia, Pa. D
1550		
KKHI	10	S. Francisco, MBC a)
KREB	10	LS/5N Shreveport, La. a)
WBSC	10	LS/5N Bennetsville, S.C. MBC a)
WBHM	50	Birmingham, Ala. D
KDAB	10	Arvada, Colo. D
KFIF	50	Tucson, Ariz. D
WRIZ	10	Coral Gables, Fla. D
WZST	10	Tampa, Fla. D
WMOE	50	Mobile, Ala. D
WSMA	10	Smyrna, Ga. D
WJAQ	50	Jackson, Miss. D
WKPT	10	Kingsport, Tenn. D
1560		
KPMC	10	Bakersfield, Cal. ABC a)
WQXR	50	New York, N.Y. a)
1580		
WWIL	10	LS/5N Ft. Lauderdale, Fla. a)
KDAY	50	Santa Monica, Cal. D
WPGC	10	Morningside, Md. D
WAXU	10	Georgetown, Ky. D
WPAC	10	Patchogue, N.Y. D
KYND	10	Tempe, Ariz. D
1600		
WWRL	50	Woodside, N.Y. a)

INTERNATIONAL BROADCAST STATION KGEI

FI.: By donations, non-profit, non-comm, organization – **KGEI** (The Voice of Friendship) is owned and operated by the Far East Broadcasting Co., Inc., Whittier, California.
ADDR.: P.O. Box 15, San Francisco, Calif. – **Te.:** By 1-4820. **Cable:** "FEBCOM-SFRAN" – **L.P.:** St. Mgr.: C. W. Lawrence. Dir. Spanish Prgr.: J. Escalante. Dir. Tec.: D. C. Smith.
STATION: 15240 kc 19.69 m 50 kW d. Latin America.
D. PRGR.: Mo-Fri: 22.30–04.25, Sat 23.00–03.25, Sun 23.00–03.30.
N. in English, Portuguese & Spanish: Mo-Fri 22.30–22.45.
English: Mo-Fri 23.30–24.00, 04.00–04.25, Sat 23.00–24.00, 03.10–03.25, Sun 23.00–24.00, 02.40–03.30 – **Portuguese:** Mo-Fri 22.45–23.16 – **French:** Mo-Fri 23.16–23.30 – **Russian:** Thurs 23.16–23.30 – **Chinese:** Tues & Wed: 23.16–23.30 – **Spanish:** other times.

ANN.: English (Sign On): "This is the Voice of Friendship, International Broadcast Station KGEI, San Francisco, California, the United States of America, owned and operated by the Far East Broadcasting Company on a frequency of 15240 megacycles in the 19 meter band. KGEI is dedicated to the purpose of promoting good will, better understanding and friendship among the peoples of the free world. This is the Voice of Friendship".
INT.-SIG.: Sign off with anthem "the Lords Prayer" followed by National Anthem – V. QSL-cards sent on request – PUB.: Prgr.-schedule sent to all requesting.

WORLDWIDE BROADCASTING SYSTEM

(A Division of Metromedia, Inc.)
FI.: By adv. – ADDR.: 4 West 58th Street, New York 19, N.Y. Cable: WRULINT. Te.: Plaza 2-3322.
L.P.: Pres.: R. Brent. Dir. of News-Programming: M. Krauss. Dir. of Research: M. Garcia. Eng. Language Section Chief: J. Lowry. Span. Language Section Chief: M. Bomar. Tec. Dir.'s: (Studio) J. Garafalo. (Transmitter) L. MacDonald. Eng. Language Broadcasters: J. Lowry, H. Edell, M. Bernam, O. Rose, R. Whitfield. Span. Language Broadcasters: M. Bomar, T. Arriagada, M. Rosenberg, L. Uncal.

FOREIGN SERVICE

Stations: WRUL 1–4 50 kW, WRUL-5 80 kW.

kc	m	kc	m	kc	m	kc	m	kc	m
5975	50.21	9695	30.94	15380	19.57	15440	19.43	17845	16.81
6140	48.86	11855	25.31	15385	19.50	17760	16.89	21460	13.98

European Service in English:
15.00–19.30 on 15380, 17845 kc, 19.30–23.00 on 15380 kc only.
African Service in English:
15.00–18.00 on 21460 kc, 18.00–22.00 on 17845 kc.
Latin American Service in English:
15.00–22.00 on 17760, 15440 kc, also 19.30–23.00 on 17845 kc, 23.15–01.00 on 9695, 15385 kc.
N. from WRUL at 15.30, 17.30, 19.30, 21.30, 23.30; from ABC Network 5 min's before the h, 15.55 to 00.55 – **"American Business Bulletins"**: Mo–Fri 21.40, 23.40 – **Sports**: Mo–Fri 15.50, Sat 22.25, 23,25, Sun 21.25, 23.25 – **"This World We Live In"**: Mo–Fri 15.00, 20.00. Mo & Wed 00.00 – **"Mel in Manhattan"**: Mo–Fri 16.00, 19.00, 21.00. Tues & Thurs 00.00 – **"Sandy Lesberg Show"**: Mo–Fri 17.00 – **"Hit Parade"**: Fri 18.00, 00.00, Sat 20.00 – **"Great Moments in History"**: Sun 22.00 – **"Voices in the Headlines"**: Sun 21.00, 00.30 – **"DXing with the ASWL"**: Sat 18.30 – **"Postmark N.Y."**: Sat 21.00 – **"Camera World"**: Sat 19.00, Wed 18.30 – **"Stamps"**: Sun 21.45 – **"At Home with Rotary"**: Sat 18.45 – **"World Tape Pals"**: Sat 21.15.
Latin American Service in Spanish:
D 22.00–03.00 on 5975, 9695, 11855, 15385, 15440 kc.
N.: 22.05, 22.30, 23.30, 00.30, 01.30 plus headlines one min. before the h – **Prgr. Preview**: 22.00, 00.00 – ***This World We Live In**: D 22.15, 22.45, 23.05, 23.45, 00.15, 00.45, 01.05, 01.45, 02.45 – **World of Jazz**: Mo 00.45 – **Tangos en Nueva York**: Tues 01.45 – **Hit Parade**: Sat 01.05 – **Folk Music of the World**: Thurs 02.00 – **Science and Life**: Thurs 01.45, Sun 00.45 – **The Temple Hour**: Sun 01.45 – **Auto-Club of the Air**: Mo 22.45, Fri 01.45 – **Foto-Club of the Air**: Tues 22.45, *Sat 01.45 – Weekly News Review: Mo 02.45 – Mormon Church (from* Salt Lake City): Sun–Thurs 00.45.
* With daily Sports Capsule at 23.00 and 01.00 – Interviews – Men About town – Places to see – People on the News – and other features.
ANN.: E: "The World Comes to you over International Radio Station WRUL, Tonight WRUL is broadcasting on the following frequencies...". Sp: "Esta es Nueva York, WRUL de la Worldwide Broadcasting System" – V. by QSL-card – PUB.: Write for Prgr.-schedule.

AMERICAN BROADCASTING CO. (A. Division of American Broadc. Paramount Theatres, Inc.).

ADDR.: 7 West 66th Str., New York 23, N.Y. – Te.: Susquehanna 7-5000.
L.P.: Pres. American Broad. -Paramount Theatres and A.B.C.: L. H. Goldensen. Financial Vice-Pres. AB-PT and Executive Vice-Pres. A.B.C.: S. B. Siegel. Vice-Pres. in charge of Press Information for A.B.C.: M. J. Foster. Pres. of the ABC Radio Network: R. R. Pauley.
Owned and operated stations: WABC+FM New York, KABC+FM, Los Angeles, KGO+FM, San Francisco, WXYZ+FM, Detroit, KQV, Pittsburgh, WLS, Chicago.

COLUMBIA BROADCASTING SYSTEM INC.: ADDR.: 485 Madison Ave., New York 22, N.Y. Te.: Plaza 1-2345 – L.P.: Chairman of the Board of Directors: William S. Paley. Pres.: F. Stanton. Pres. CBS Radio Division: A. H. Hayes. Dir. Information Sce.: S. Garfield.

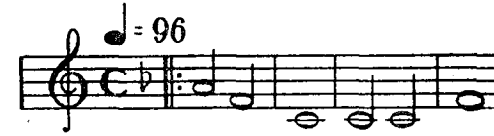
Owned and operated stations: WCBS, New York, WBBM, Chicago, KCBS, S. Francisco, KMOX, St. Louis, KNX, L. Angeles, WEEI, Boston, WCAU, Philadelphia – V. by QSL-card or letter.

NATIONAL BROADCASTING COMPANY INC.: ADDR.: 30 Rockefeller Plaza, New York 20, N.Y. – L.P.: Chairman of the Board: Robert W. Sarnoff. Pres.: Robert E. Kintner. Senior Exec. Vice Pres.: D. C. Adams. Exec. Vice Pres. NBC Owned Stations & R. W. Welpott Spot Sales Division: Exec. Vice Pres. TV Network: W. D. Scott. Vice Pres. Radio Network: W. K. McDaniel. Vice Pres. Enterprises Division: G. A. Graham, Jr. Vice Pres. Corporate Affairs: L. Bernstein. Dir. Internat. Enterprises: Clifford W. Slaybaugh.
Owned and operated Radio Stations: WNBC-+WNBC-FM, 30 Rockefeller Plaza, New York 20, N.Y. Te.: Circle 7-8300. Vice Pres. and Gen. Mgr.: T. Walworth – WRC+WRC-FM, 4001 Nebraska Ave., Washington 16. D.C. Te.: Emerson 2-4000. Vice Pres. and Gen. Mgr.: J. Goodfellow – WJAS+WJAS-FM, 1459 Crane Ave., Pittsburgh 20, Pa. Te.: Locust 3-5238. Gen. Mgr.: S. J. Rooney – WMAQ+WMAQ-FM, Merchandise Mart, Chicago 54, Ill. Te.: Superior 7-8300. Vice Pres. and Gen. Mgr.: L. E. Yoder – WRCV, 1619 Walnut Str., Philadelphia 3, Pa. Te.: Locust 4-3700, Vice Pres. and Gen. Mgr.: R. W. Welpott – KNBC+KNBC-FM, 420 Taylor, S. Francisco 2, Cal. Te.: Greystone 4-8700. Gen. Mgr.: W. B. Decker.

UNITED NATIONS

UNITED NATIONS RADIO

ADDR.: United Nations, New York. Cable: Unations, New York Te.: P1 4-1234 – L.P.: Under-Secr., Office of Public Inf.: Dr. Hernane Tavares de Sà. R. & Visual Services Div.: Dir.: J. d'Arcy, Acting Deputy Director: D. Ritchie, Chief, Operations: M. Hayward, Chief, Radio: Y. Permogorov.
INT.-SIG.: Music chime.



ANN.: "This is the "United Nations". This introductory phrase is used in all the official UN prgrs. in all of the languages concerned. Message to listeners: The R. & Visual services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the sched. of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Asuncion, Athens, Beirut, Belgrade, Bogota, Buenos Aires, Cairo, Colombo, Copenhagen, Dar es Salaam, Djakarta, Kabul, Karachi, Lima, Lome, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Port-of-Spain, Port Moresby, Prague, Rabat, Rangoon, Rio de Janeiro, Rome, San Salvador, Sydney, Teheran, Tokyo, Tunis, Usumbura, Washington, Geneva, Addis Ababa, Bangkok, Santiago.
Requests for copies of the sched. of UN broadc. which can be heard in the United States should be addressed to: Radio and Visual Services Division, United Nations, New York.

BROADCASTS FROM THE UNITED NATIONS

To No., We., So. Europe: Mo-Fri: 17.00–17.30 on 15410 kc (WBOU). N.: in Dutch, Finnish, Icelandic; 17.30–18.00 on 15410 kc (WBOU). N.: in English, French, Arabic, German. 18.00–18.30 on 15150/15250/17870/21485 kc. N.: in Italian, Greek, Turkish.
To Ea. Africa: Tues–Sat: 14.00–14.15 on 15225 kc (MUN). N. in English, French. This prgr. is transmitted to Munich on 15270/21645 kc (WDSI).
To We., C. Africa: Mo-Fri: 19.00–19.15 on 17795/21570 kc (WLWO). N. in French, English; Tues-Sat: 07.00–07.30 on 6045/9710 kc. N. in French, English.
To C.&So. Africa: Tues-Sat. 04.30–04.45 on 9770/11805 kc. N. in English.
To M. East, So. Europe: Tues-Sat: 03.30–04.00 on 7255/9615 kc (TAN). N. in English, Hebrew, Amharic, Italian, Serbo-Croat. This prgr. is transmitted to Tangier at 01.00–01.30 on 5965/9615 kc (WBOU).
To Ea. Latin America: Tues-Sat: 00.30–01.00 on 6190/11770/15355 kc (WLWO), 9670 kc (WBOU), 15215 kc (WDSI). N., Prgr. in Spanish.
To We. Latin America: Tues-Sat: 01.45–02.00 on 9530/15130 kc (KCBR). N. in Spanish.
To Asia/Far East: Tues-Sat: 02.00–02.15 English for Malaya on 15250 kc (Philippines). This prgr. is transmitted to the Philippines at 01.30–01.45 on 21460 kc (KCBR), 07.45–08.00 English for Au./N.Z. on 5985/9565 kc (KNBH). This prgr. is repeated from Honolulu at 08.45–09.00 on 9650 kc; 10.00–10.30*. N. in English, Thai, Indonesian on 15205 kc (Philippines). 10.30–10.45*. Chinese on 11785/15205 kc (Philippines); 10.45–11.00*. English for So. Ea. Asia on 11785/15205 kc (Philippines) *) these prgr.'s are transmitted to the Philipines at 08.00–09.00 on 6185/9600 kc (KCBR) 11.45–12.00 English for Ceylon on 17855/21455 kc (TAN). This prgr. is transmitted to Tangier on 15135/17780/21570 kc (WBOU).

Broadcast of meetings of the general assembly and the security council when in session

1) To Europe/M. East (English/French).
AM Meeting: 14.30–17.00 on 15135/17705 kc (WBOU/WLWO) – PM Meeting: 19.15–22.45 on 11875 kc (WBOU), 19.30–22.45 on 15130 kc (WLWO), 22.45–01.00 on 9615 kc (WBOU), 23.00–03.00 on 5965 kc (WBOU).

2) To We. Ce. Africa (English/French).
AM Meeting: 14.30–17.00 on 21610 kc (WLWO) – PM Meeting: 19.15–22.45 on 17795 kc (WLWO).

3) To Latin America (Spanish):
AM Meeting: 14.30–17.00 on 15390 kc (WDSI) – PM Meeting: 19.15–2145 on 15390 kc (WDSI), 21.45–03.00 on 11905 kc (WBOU).
Prgr.'s from the United Nations are broadcast by st.'s in more than 100 countries and territories. The times of these broadcasts may be ascertained from local newspaper or from the stations concerned – R.st's in the United States and Canada receive the prgrs. direct by line from the United Nations Headquarters, or by recording – The R. and Visual Services Division prepares and distributes recorded prgr.s in Amharic, Arabic, Burmese, Duri, Dutch, English, Finnish, French, German, Greek, Hebrew, Icelandic, Hindi, Indonesian, Italian, Persian, Polish, Portuguese, Pushtu, Serbo-Croat, Sinhalese, Spanish, Tagalog, Thai, Turkish and Urdu – Letters from listeners all over the world are welcome.
New listeners are sent some general information about the United Nations upon request – Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

BAHAMAS (British)

L.T.: GMT ÷ 5 h – Pr. L.: English.

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Go.)

ADDR.: P.O. Box 1347, Nassau. **Te.:** 4623. **Cable:** Broadcast.

L.P.: Mgr. H. R. Bethel. Dir. Tec. L. Cartwright. Dir. Prgr. K. Jackson

STATION: ZNS 1540 kc 195 m 10 kW – ZNS2 1240 kc 242 m 0.25 kW.

HOME SCE : On 1540 kc: 11.00(Sun 12.00)–05.00. N : 13.15, 18.15, 00.15. On 1240 kc: W 22.30–04.00.

ANN.: "This is st. ZNS, Nassau"; "This is ZNS2, The Voice of New Providence" – **V.** by letter.

BARBADOS

L.T.: GMT ÷ 4 h – Pr. L.: English.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)

FI.: By adv. – **ADDR.:** River Road, Bridgetown. **Cable:** Rediffusion. **Te.:** 5126 – **L.P.:** Gen. Mgr.: Col. R. W. R. Oliver. Eng. G. Duesbury. Dir. Prgr.: F. C. Pardo.

D. PRGR.: 09.58–03.03.

N. (BBC): 11.00, 16.00, 21.00, 23.00, 03.00.
Barbados Rediffusion Service operates experimental broadcasts on short wave via Messrs. Cable & Wireless (W.I.) during special events like horse racing and crikets matches. The Rediffusion Services will operate on one of the following frequencies via Cable & Wireless: ZNX20 5040, ZNX32 7547 and ZNX49 11015 kc.

COSTA RICA

L.T.: GMT ÷ 6 h. – Pr.L.: Spanish.

DEPARTEMENTO CONTROL NACIONAL DE RADIO

ADDR.: Apartado 3483, San José – **Cable:** Ranac – **Te.:** 7339 – **L.P.:** Dir.: L. H. Andrés.

STATIONS: All st. comm. exc. 3), 22) (Rel.), 15), 38) (Cultural).
Short Waves: Call: TI——. [1] East & West. [2] North & South.

Call	kc	m	kW	Name	H. of tr.
1) Q	5954	50.39	1	R. Casino, Puerto Limon	11.55–06.00
2) HBG	6006	49.95	1	R. Reloj, San José	12.00–06.00
3) FC	6037	49.69	0.3d[1]	Faro del Caribe, San José	11.30–05.00
4) 2GG	6075	49.38	1	R. Excelsior, San José	12.00–05.00
5) GPH	6215	48.27	1	R. Monumental, San José	11.00–06.00
6) RICA	9615	31.20	3	La Voz de la Victor, San José	11.00–07.00
3) FC	9645	31.10	2d[2]	Faro del Caribe, San José	11.30–05.00

Medium Waves: Call: TI——. °=Short Wave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
7) JJH	550	1.5	18) R	925	3	28) RE	1275	1
8) JC	575	1	19) LC	950	1	29) SBJ	1300	2
6) RICA	°625	10	20) RS	975	4	30) NN	1325	1
5) BAS	°650	3.5	21) CEC	1000	1	31) WW	1350	1
10) U	675	1	22) AC	1025	2	32) MAR	1375	1
2) HB	°700	2	23) RH	1050	1	33) LG	1400	2
11) LX	725	1	3) FC	°1075	10	34) CJ	1425	1
12) RA	750	1	24) EM	1100	1	35) MMC	1450	1
13) W	775	4.5	4) GG	°1125	5	36) HCJ	1475	1
5) GPH-2	800	3.5	25) SM	1150	1	37) RU	1500	1
14) OS	825	1.5	11) CA	1175	2	38) EEAW	1525	1
15) UCR	850	1	1) Q	°1200	1	39) MET	1550	1
16) SS	875	1.3	26) BSD	1225	1	40) JJC	1575	1
17) CS	900	6	27) ALC	1250	1	41) ACA	1600	1

Short Waves:
1) Apt. 287, Puerto Limon – **L.P.:** Dir.: L. Villalobos – **V.** by letter.
2) Apt. 341, San José – **L.P.:** R. Barahona G. – **V.** by letter.
3) Apt. 2710, San José. **Te.:** 1250 – **L.P.:** Mgr. F. Cabezas B. Dir. Prgr.: W. Wortman. Dir. Tec.: P. Smith – **D. PRGR.: On all fq's: Spanish:** W 11.30–04.00 Sun 12.30–20.00, 21.00–04.00. **"Caravana Musical" (Request prgr.):** 20.00–22.30. **English:** D 04.00–05.00, Sun 20.00–21.00. **German:** Sun 19.30–19,45.

ANN.: "This is TIFC, the Lighthouse of the Caribbean in San José, Costa Rica". **Sp.** "TIFC, FARO del Caribe en San José, Costa Rica" – **V.** by QSL-card – **PUB.:** Prgr. sched. free on request.
4) Apt. 1774, San José. **Te.:** 5410 – **L.P.:** Dir. G. Grillo O. Dir. Tec.: A. Morales R. – **D. PRGR.: N.** every h on the h – **ANN.:** "Emisoras de R. Excelsior desde San José, Costa Rica, América Central" – **V.** by QSL-card or letter. **Re.** in Sp, E.
5) Apt. 800, San José (TIGPH-2: Nueva Alma Tica) – **L.P.:** Dir. L. Pinto S. – **V.** by letter.
6) Apt. 3611, San José. **Te.:** 3737. **Cable:** La Victor – **L.P.:** Dir. Gen.: M. Acosta. Dir. Tec.: A. Alfaro – **D.PRGR.: N.** every half h and 12.00–13.00, 17.00–18.05, 21.00–21.20, 03.00–03.30 – **ANN.:** "La Victor de Costa Rica. La Voz de la Victor. R. Internacional de Costa Rica" – **V.** by letter. **Re.** in Sp, E.

Medium Waves: D. 12.00–05.00 exc. where indicated.
7) **R. Progreso,** Apt. 122, Alajuela – **L.P.:** Dir.: E. Martinez.
8) **Radiopolis,** Apt. 854, San José – **L.P.:** J. Casto C.
9) **R. Selecta,** Apt. 4666, San José – 10) **R. Musical,** Apt. 854, San José.
11) **R. Columbia,** Apt. 708, San José (TICA: Apt. 708, Puntarenas).
12) **Radiolandia,** Apt. 2525, San José – **L.P.:** Dir.: R. Aguilar V.
13) **R. City,** Apt. 835, San José – **L.P.:** Dir.: A. Múrolo C. – **V.** by letter, **Re.** in E.
14) **R. Titania,** Apt. 512, San José.
15) **R. Universitaria,** San Pedro – **L.P.:** Dir.: C. Salazar H. Dir. Tec.: A. Mora R. – **D. PRGR.:** 14.00–04.00 (Classical Music only) – **V.** by letter.
16) **La Voz del Tropico,** Apt. 914, San José.
17) **La Voz de America,** Apt. 517, San José.
18) **Radion,** Apt. 2084, San José. **Te.:** 4490 – **L.P.:** Dir. Gen.: A. Cañas I. Dir. Tec.: C. Lang Q. – **D. PRGR.:** 12.00–04.00 – **ANN.:** "Radion, la emisora de la juventud" – **V.** by letter.
19) **R. Hispana,** Cartago – 20) **R. Athena,** Apt. 208, San José.
21) **R. Cima,** San Ramón – **L.P.:** Dir.: C. E. Córdoba.
22) **R. Fides,** Apt. 1933, San José – **L.P.:** Dir.: G. Jimenez A. Dir. Tec.: A. Lizano – **D. PRGR.:** 11.00–04.15. **N.:** 17.00 – **ANN.:** "T.I.A.C. Radio Fides, Emisora Catolica de la Iglesia de Costa Rica".
23) **R. El Mundo,** Apt. 1339, San José.
24) **R. Pampa,** Apt. 3419, Nicoya – 25) **R. Sport,** Apt. 4140, San José.
26) **R. Victoria,** Cartago – 27) **R. Universal,** Apt. 3202, San José.
28) **R. Emmaus,** Coronado – **L.P.:** Dir. Gen.: C. H. Rodriquez Q. Dir. Tec.: A. D. Romero – **D. PRGR:** 11.50–03.15.
29) **R. Libertad,** Apt. 4075, San José – 30) **R. Nandayure,** Tilarán, Gte. – **L.P.:** Dir.: H. Reuben A. – 31) **R. Centro,** Puntarenas.
32) **R. Tropical,** Heredia – 33) **R. Cariari,** Limón.
34) **R. Sinai,** San Isidro del General.
35) **R. Golfito,** Puerto Golfito – **V.** by letter.
36) **R. Regional,** San Carlos – **V.** by letter – **F.PL.:** Sw.-st. 49 m.b.
37) **R. Union,** Liberia Gte – 38) **R. Turrialba,** Turrialba
39) **Servicio Metereológico,** Minist. Agricultura, San José.
40) **La Voz de Guanacaste,** Liberia.
41) **La Voz de Costa Rica,** San José – **L.P.:** Dir.: A. Cespedes A.

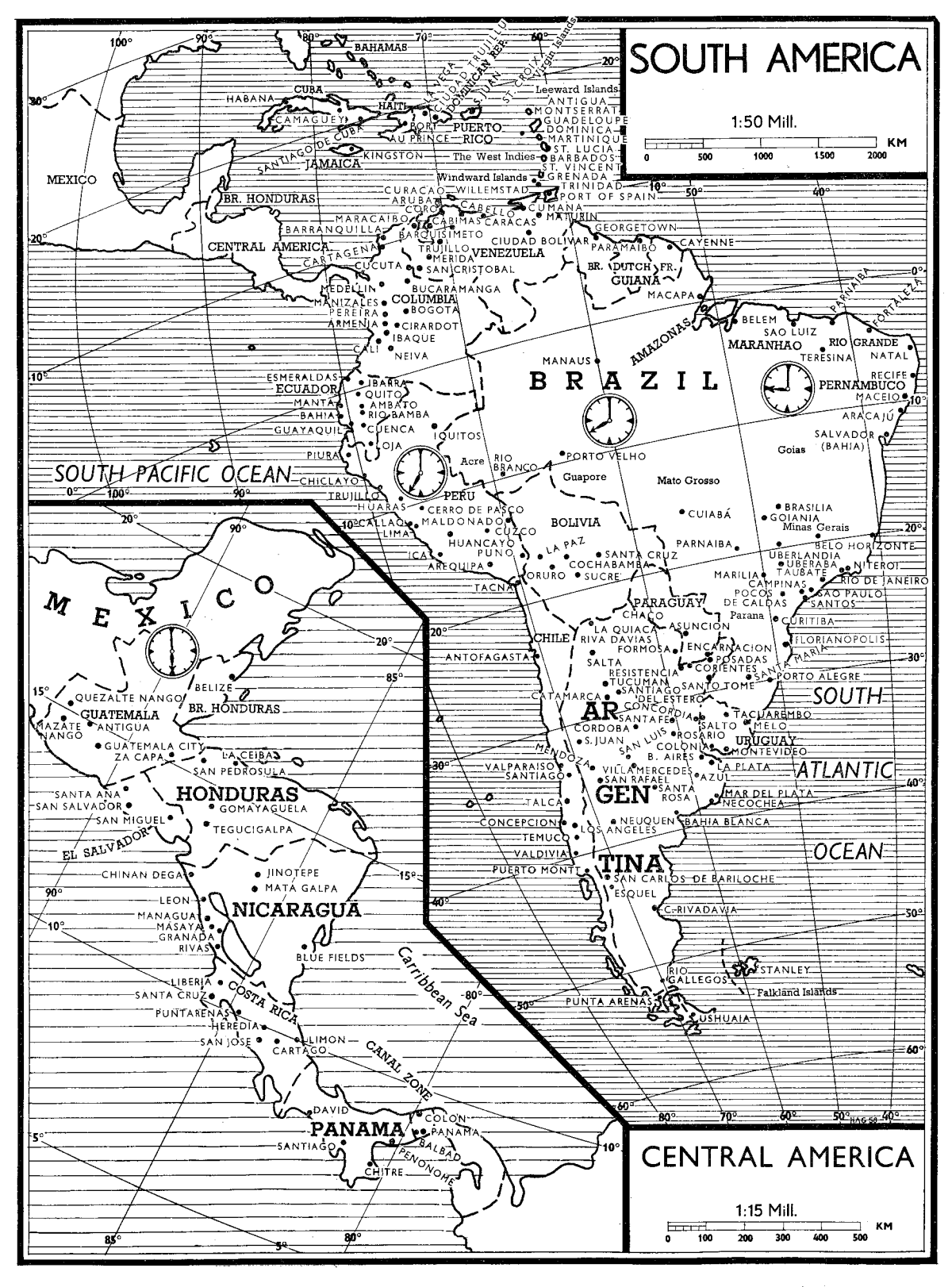
CUBA

L.T.: GMT ÷ 5 h – Pr.L.: Spanish.

MINISTERIO DE COMUNICACIONES

Direccion General de Telecommunicaciones.

ADDR.: Plaza de la Républica "José Marti", La Habana.
There has been created a Cuban Broadcasting irstitute to operate a National Network of TV and Broadcasting.


SOUTH AMERICA
1:50 Mill.
KM
0 500 1000 1500 2000
CENTRAL AMERICA
1:15 Mill.
KM
0 100 200 300 400 500
BRAZIL
ARGENTINA
CHILE
PERU
BOLIVIA
PARAGUAY
URUGUAY
VENEZUELA
COLUMBIA
ECUADOR
GUIANA
MEXICO
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
CUBA
JAMAICA
HAITI
PUERTO RICO
The West Indies
Windward Islands
Leeward Islands
BAHAMAS
CENTRAL AMERICA
SOUTH PACIFIC OCEAN
ATLANTIC OCEAN
Caribbean Sea
CANAL ZONE
Falkland Islands
HAVANA
CAMAGUEY
SANTIAGO DE CUBA
PORT AU PRINCE
KINGSTON
CIUDAD TRUJILLO
DOMINICAN REP.
LA VEGA
SAN JUAN
ST. CROIX
Virgin Islands
ANTIGUA
MONTSERRAT
GUADELOUPE
DOMINICA
MARTINIQUE
ST. LUCIA
BARBADOS
ST. VINCENT
GRENADA
TRINIDAD
PORT OF SPAIN
CURACAO
WILLEMSTAD
ARUBA
CORO
CABELLO
CUMANA
MATURIN
CARACAS
CIUDAD BOLIVAR
GEORGETOWN
PARAMAIBO
CAYENNE
BR. DUTCH
FR.
MACAPA
MARACAIBO
BARRANQUILLA
CARTAGENA
CUCUTA
MERIDA
TRUJILLO
BARQUISIMETO
SAN CRISTOBAL
MEDELLIN
MANIZALES
PEREIRA
ARMENIA
CIRARDOT
IBAQUE
NEIVA
CALI
BUCARAMANGA
BOGOTA
MANAUS
AMAZONAS
BELEM
SAO LUIZ
MARANHAO
TERESINA
PARNAIBA
FORTALEZA
RIO GRANDE
NATAL
RECIFE
PERNAMBUCO
MACEIO
ARACAJÚ
SALVADOR
(BAHIA)
Goias
ESMERALDAS
IBARRA
QUITO
AMBATO
MANTA
BAHIA
RIO BAMBA
GUAYAQUIL
CUENCA
LOJA
PIURA
IQUITOS
Acre
RIO BRANCO
PORTO VELHO
Guapore
Mato Grosso
CUIABÁ
BRASILIA
GOIANIA
Minas Gerais
BELO HORIZONTE
UBERLANDIA
UBERABA
TAUBATE
NITEROI
RIO DE JANEIRO
MARILIA
CAMPINAS
POCOS DE CALDAS
SAO PAULO
SANTOS
CHICLAYO
TRUJILLO
HUARAS
CERRO DE PASCO
CALLAO
LIMA
MALDONADO
CUZCO
HUANCAYO
ICA
AREQUIPA
PUNO
LA PAZ
ORURO
SUCRE
SANTA CRUZ
COCHABAMBA
PARNAIBA
TACNA
ANTOFAGASTA
CHACO
LA QUIACA
ASUNCION
RIVA DAVIAS
FORMOSA
ENCARNACION
POSADAS
CURITIBA
FLORIANOPOLIS
SANTA MARIA
PORTO ALEGRE
SALTA
RESISTENCIA
CORRIENTES
TUCUMAN
SANTIAGO
SANTO TOME
CATAMARCA
DEL ESTERO
CONCORDIA
TACUAREMBO
CORDOBA
SANTA FE
SALTO
MELO
S. JUAN
SAN LUIS
ROSARIO
COLONIA
MONTEVIDEO
B. AIRES
LA PLATA
MENDOZA
VALPARAISO
SANTIAGO
VILLA MERCEDES
SAN RAFAEL
AZUL
MAR DEL PLATA
NECOCHEA
TALCA
SANTA ROSA
BAHIA BLANCA
CONCEPCION
NEUQUEN
LOS ANGELES
TEMUCO
VALDIVIA
PUERTO MONTT
SAN CARLOS DE BARILOCHE
ESQUEL
C. RIVADAVIA
RIO GALLEGOS
STANLEY
PUNTA ARENAS
USHUAIA
BELIZE
QUEZALTE NANGO
BR. HONDURAS
MAZATE NANGO
ANTIGUA
GUATEMALA CITY
ZA CAPA
LA CEIBA
SAN PEDROSULA
SANTA ANA
SAN SALVADOR
GOMAYAGUELA
SAN MIGUEL
TEGUCIGALPA
EL SALVADOR
CHINAN DEGA
JINOTEPE
MATA GALPA
LEON
MANAGUA
MASAYA
GRANADA
RIVAS
BLUE FIELDS
LIBERIA
SANTA CRUZ
PUNTARENAS
HEREDIA
SAN JOSE
LIMON
CARTAGO
DAVID
COLON
PANAMA
SANTIAGO
BALBAO
PENONOME
CHITRE

RADIO HABANA CUBA (Go.)
ADDR.: Apt. Postal 7026 Habana.
STATIONS: mw. 10 kW, sw.=100 kW.

kc	m	kc	m	kc	m	kc	m	kc	m
1010	297.0	6070	49.42	11875	25.26	15270	19.65	21460	13.98
5990	50.08	9565	31.36	11970	25.06	15340	19.56	21630	13.87
6015	49.88	9675	31.01	15135	19.82				

FOREIGN SCE. in Spanish, English, French, Portuguese, Arabic: I=to No., Ce. & So. Am, II=No. Am, III=Brazil, IV=Europe, V=Mediterranean.

Arabic	kc	Portuguese	kc
20.30–21.00 V	15135	23.15–24.00 III	11970
English		**Spanish**	
03.00–04.30 II	5990, 6015	11.00–18.30 I	6015, 9675, 15340
05.00–06.00 II	5990, 6015	19.00–20.30 V	15135
20.20–21.40 IV	15270	22.00–23.15 I	6015, 9675, 11970
French		23.15–24.00 I	6015, 9675
04.30–05.00 II	5990, 6015	00.00–01.00 I	6015, 9675, 11970
19.00–20.20 IV	15270	01.00–03.00 I	5990, 6015, 9675, 11970
21.10–21.40 V	15135	03.00–06.00 I	6070, 11970
		06.30–07.30 IV	9565

ANN.: "Aqui R. Habana Cuba" – V. by QSL-card and letter.

DOMINICAN REPUBLIC

L.T.: GMT÷5 h – Pr.L.: Spanish.
DIRECCION GENERAL DE TELECOMUNICACIONES
ADDR.: Santo Domingo. Cable: Telecom. Te.: 22244 – L.P.: Dir. Gen.: T. H. Cartinas C.
STATIONS: Approx. 11.00–05.00 (exc. where indicated). All comm.
Short Waves: Call: HI––. *=inactive; P=Puerto. Sto=Santo.

	Call	kc	m	kW	Name and h of tr.
1)	7U	*3205	93.60	0.5	Broadc. Tropical, P. Plata
2)	3B	*3225	93.05	1	R. Libertad, Santiago: 11.00–03.00
3)	1Z	*3245	92.44	0.5	Broadc. Nacional, Sto. Domingo
4)	7SD	3285	91.32	1	R. Santo Domingo: 10.55–05.02
5)	2N	3305	90.77	1	Radio HIN, Sto. Domingo: W 11.02–04.05
6)	5U	3225	90.23	1	R. Caribe, Sto. Domingo: 10.55–04.30
6a)	RM	3265	91.87	1	R. Sol, Higuey: 12.00–03.00
7)	2P	3355	89.42	0.25	Emisora HI2P, La Romana, irr.
8)	4F	3365	89.15	1	R. Santiago: irr.
9)	2D	3385	88.63	1	R. Hit Musical, Santiago: W 11.00–04.00 Sun 13.00–01.00
10)	2S	4780	62.76	1	Onda Musical, Sto. Domingo: 11.00–05.00
11)	5C	4860	61.73	1/0.1	La Voz del Progreso, San Francisco de Macoris: 11.00–03.00
12)	2JP	4880	61.48	1	R. Comercial, Sto. Domingo
2)	5B	*4890	61.35	0.25	R. Libertad, Santiago
13)	9B	*4910	61.10	0.5	Emisora HI8B/9B, Santiago
14)	5V	*4930	60.85	0.6	La Voz del Biran, Barahona
15)	3K	4980	60.25	0.25	Ondas del Yaque, Santiago: irr.
16)	2MS	*5010	59.88	1	R. Cristal, Sto. Domingo
17)	3C	5030	59.64	1	La Voz del Papagayo, La Romana
18)	2L	*5055	59.36	0.5	La Voz del Tropico, Sto. Domingo
4)	4SD	5970	50.25	7.5	R. Santo Domingo: 10.55–04.35
19)	1J	6025	49.79	0.1	La Voz de Oriente, San Pedro de Maco.
8)	8Z	6060	49.50	0.5	R. Santiago: 11.00–03.00
2)	5B	6080	49.34	0.25	R. Libertad, Santiago
6)	3U	6090	49.26	1	R. Caribe, Sto. Domingo: 10.55–04.30
3)	1Z	6110	49.10	1	Broadc. Nacional, Sto. Domingo: 11.45–04.30
13)	9B	6120	49.02	0.5	R.dif. HI8B/9B, Santiago
20)	1G	*6130	48.94	0.25	R. difusora HIG, Sto. Domingo
1)	9U	6190	48.47	0.1	Broadc. Tropical, P. Plata: 11.00–03.00
8)	8Z	6307	47.57	0.5	R. Santiago
2)	5B	6325	47.43	0.25	R. Libertad, Santiago: 11.00–03.00
6)	4U	9505	31.56	50	R. Caribe, Sto. Domingo: 10.55–04.30a)
20)	2G	*9590	31.28	0.25	R. difusora HIG, Sto. Domingo

a) reported on 9485 kc irr.
Medium Wave: Call: HI––. °=Short Waves.

Call	kc	kW	Call	kc	kW	Call	kc	kW
16) MS	°570	1	25) MC	1100	0.5	6) UE	1310	1
4) 3SD	°620	10	10) 3S	°1150	1	19) HD	°1320	1
21) DC	700	1	26) FD	1160	1	2) 4B	°1330	0.5
3) 2Z	°740	0.5/0.1	27) DV	1190	0.5	3) Z	°1350	1
22) MD	760	0.5	5) N	°1220	1	6) UC	1370	1
18) L	°790	0.5	28) 2L	1230	0.25	4) 8SD	°1380	1
8) 9Z	°820	1/0.1	1) 8U	°1240	0.25	6) UD	1390	1
6) UA	°860	5	14) 4V	°1240	0.25	8) 6Z	1410	0.5
23) 3A	910	0.25	11) 4C	°1250	1/0.1	32) 2A	1440	0.04
15) 2K	°920	1	29) T	1260	0.25	4) 9SD	1440	1
20) G	°950	0.25	6) UA	1270	1	33) 1R	1450	0.2
24) SA	980	0.75	30) VM	1290	1	34) 1A	1490	0.25
12) JP	°1020	1	31) 3V	1310	0.5	35) 2H	1490	0.25
13) 8B	°1050	1/0.1				9) 2D	°1600	1

FM: 1) HIZ 89.2 Mc 0.06 kW – 8) HI7Z 89.2 Mc 0.05 kW – 5) HIN 90.7 Mc – 6) HI6U 96 Mc 0.25 kW – 4) HI5SD 100 Mc 0.06 kW – 6) BI7U 105 Mc 0.25 kW.

1) Ca. Beler, Puerto Plata. Te.: 570 – L.P.: Dir. J. Rojas – V. by QSL-card.
2) Máximo Gomez 14, Santiago. Te.: 2924 – L.P.: Dir. A. Vanderhorst – ANN.: "Desde Santiago, en la República Dominicana transmite R. Libertad, Sintoniá perfecta en todo el país".
3) Edif. Copello, Apt. 210, Sto. Domingo. Te.: 2-2839 – L.P.: Dir. Ing.: F. Hatton – ANN.: "Transmiten las Emisoras Nacionales HIZ, HI1Z desde Sto. Domingo, capital de la República Dominicana".
4) Av. Ci. de Miami 8, Sto. Domingo. Cable: Dominicana. Te.: 2-3191 – L.P.: Dir. Gen.: Dr. H. Peres Reyos – D. PRGR.: N.: 11.00, 15.00, 19.00, 21.00, 03.30. English: 02.00–02.15 – ANN.: "Al Servizio del progreso y la cultura en general, transmite R. Santo Domingo desde Santo Domingo, Distrito Nacional Capital de la Rep. Dominicana" – V. by QSL-card – Relay st's: HI8SD La Vega. HI9SD Santiago.
5) Feria de la Paz, Sto. Domingo. Cable: "Rahin". Te.: 3-1011 – L.P.: Dir. Gen.: J. O. Felix G. Dir. Tec.: J. L. Martin C – D. PRGR.: N.: 12.05, 23.35, 04.00 – ANN.: "R. HIN desde la Feria de la Paz" – V. by QSL-card. Re. in Sp., E.
6) Feria de la Paz, Sto. Domingo. Te.: 3-1149 – L.P.: Dir.: P. Pou Saleta – ANN.: "Desde Sto. Domingo, Ciudad Primada de América, Capital de la República Dominicana, transmite Radio Caribe" – V. by QSL-card – F.PL.: Prgr. in English. Relay St's: HIUA Santiago, HIUE El Seibo, HIUC Borahona, HIUD San Juan.
6a) Ca. Altagracia 46, Higuey. Te.: 43 – L.P.: Dir.: J. Ferreira.
7) Castillo Marquez 28, altos, La Romana – L.P.: Dir.: N. Marinez – ANN.: "Transmite HI2P, la Voz de la Romana...".
8) 30 de Marzo 27, Santiago. Te.: 3300 – L.P.: Dir.: L. Felipe Moscoso. Dir. Tec.: J. E. Macdougal – D. PRGR.: N.: 16.30, 22.45 – ANN.: "Circuito de Emisoras de R. Santiago, Ondas corta y larga, 89.2 Mc, Frecuencia Modulada, en Santiago, República Dominicana" V. by QSL-card. Re. in Sp., E.
9) 30 de Marzo 35, Santiago. Cable: Maja. Te.: 3246 – L.P.: Dir. Gen.: M. A. Jorge A – D. PRGR.: N.: 22.45 – ANN.: "R. Musical, HID-HI2D, 1600 y 3385 kc, Santiago de los Caballeros, Rep. Dominicana" – V. by QSL-card. (Transmitters: Gates & Collins).
10) Av. Mella 25, Sto. Domingo. Te.: 2-6129 – L.P.: Dir.: P. Pacheco. D. PRGR.: N.: 01.30 – V. by letter – Prgr.sched. free on request.
11) P.O. Box 267, San Francisco de Macoris. Te.: 2845 – L.P.: Dir. Gen.: J. Raposo P. – D. PRGR.: N.: 01.00 – ANN.: "Por la Cultura del Pueblo y la Prosperidad de la Patria, transmite La Voz del Progreso desde San Francisco de Macoris" – V. by QSL-card.
12) Edif. Armenteros, El. Conde 24, Sto. Domingo. Te.: 2-8977 – L.P.: Dir.: L. Armando A. – 13) P.O. Box 454, Santiago de los Caballeros. Te.: 2939 – L.P.: Dir. Gen.: J. L. Sanchez. Dir. Tec.: J. B. Sanchez – V. by QSL-card.
14) Apolinar Perdomo 1, Barahona – Te.: 101 – L.P.: Dir. E. Lama. ANN.: "R. Barahona, La Voz del Birán..." – 15) Edif. El Rubio, Santiago. Te.: 2144 – L.P.: Dir.: R. Candelario – V. by QSL-card.
16) Edif. Armenteros, El Conde 24, Sto. Domingo. Te.: 2-1577. L.P.: Dir.: M. Báez – 17) Casa Puerto Rico, La Romana.
18) Ca. Abreu 30, Sto. Domingo. Te.: 2-2370 – L.P.: Dir.: P. Justiniano – V. by QSL-card – 19) Ca. Duarte 30, San Pedro de Macoris. Te.: 888 – L.P.: Dir.: F. M. Donastorg – V. by QSL-card – 20) Av. Mella 144, Sto. Domingo. Te.: 2-2936 – L.P.: Dir.: A. Cordero P.
Medium Waves:
21) **R. Mao**, 27 de Febrero 71, Valverde – Te.: 40 – L.P.: Dir.: T. Pujols S. – 22) **Emis. HIMD**, Pena, R. Prov., Santiago.
23) **Emis. Unidas**, Edif. Ocana, Ca. Luperón 17, Sto. Domingo. Te.: 2-0338 – L.P.: Dir.: P. Julio S. – 24) **R. Cibao**, Benito Moción 17, Santiago. – Te.: 2458 – L.P.: Dir.: C. Pou.
25) **Emis. HIMC**, S. Cristóbal – L.P.: Dir.: M. Furment U. – 26) **La Voz del Atlántico**, Comercio 21, Puerto Plata. Te.: 567.
27) **R. Santa María**, Sto. Cerro, La Vega – L.P.: Dir.: R. P. Wenceslao García, S.J. – 28) **Ondas del Valle**, Ca. Restauración 2, La Vega. Te.: 2765 – L.P.: Dir.: V. De Moya.
29) **Emis. HIT**, Edif. Jaar, El Conde Esq. Espaillat, Sto. Domingo – L.P.: Dir.: A. L. Pichardo Vda. Sanabia – 30) **Emis HIVM**, Ca. Duarte Esq. Mella, Bonao. Te.: 369 – L.P.: Dir.: J. Aquino T.
31) **R. Baní**, Uladislao Gonzalez 12, Baní – L.P.: Dir.: M. E. Bello – ANN.: "R. Baní, La Voz del Sur..." – 32) **R. San Juan**, Capotillo 107, San Juan de la Maguana. Te.: 105 – L.P.: Dir.: L. Pelayo.
33) **Emis. HIIR**, Hotel San Cristóbal, San Cristóbal. Te : 202 – L.P.: Dir.: E. Alberti T. – 34) **Emis HIIA**, Ca. Caonabo 81, Moca – L.P.: Dir.: G. Nuñez – 35) **La Voz de la Alegría**, Ca. Real 119, Sto. Domingo.

EL SALVADOR

L.T.: GMT÷6 h – Pr.L.: Spanish.
GOVERNMENT DEPT. FOR BROADCASTING
ADDR.: Ministerio del Interior, Palacio Nacional, San Salvador – L.P.: Ministro del Interior: Sr. D. Francisco José Sol.

STATIONS: All st.'s comm. exc. R. Nacional.

Short Waves: Call: YS––. *=inactive.

	Call	kc	m	kW	Name and h of tr.
1)	CB	4840	61.98		La Voz del Pacifico, Sonsonate
2)	W	*5985	50.13	1	R. Santa Ana
3)	S	*6010	49.92	5	R. Nacional de El Salvador, San Salvador
4)	C	*6096	49.21	1	Ondas Populares y Deportivas, San Salv.
5)	P	*6150	48.78	0.3	La Voz de Cuscatlan, Cojutepeque
6)	HQ	*6170	48.62	0.2	La Voz del Progreso, San Miguel
7)	UA	6190	48.47	1	R. Mil Cincuenta, San Salv.: 02.00–06.00
8)	V	*9545	31.43	1	La Voz del Comercio, Santa Ana
3)	S	9555	31.40	5	R. Nac. de El Salvador, San Salvador
9)	Y	*11725	25.58	1	R. Victoria, San Salvador
10)	AX	*11950	25.10	1	La Voz Panamericana, San Salvador

Medium Waves: Call: YS––. °=Short Waves. *=Under constr.

Call	kc	kW	Call	kc	kW	Call	kc	kW
11) ABC	560	5	18) QJ	910	10*	23) AR	1160	1*
12) DM	580	5	2) W	°930	1	1) CB	°1175	1
3) S	°655	10	6) HQ	°950	1	24) HP	1200	0.25
13) QR	700	5	9) Y	°970	1	25) MA	1230	0.5
14) KL	760	0.5	19) DF	990	10	26) I	1250	3
5) P	°780	5	4) C	°1015	10	8) V	°1280	1*
10) AX	°800	5	7) U	°1050	10	27) HX	1300	0.5*
15) DR	820	1	20) EB	1080	10	28) LA	1330	1*
16) F	840	0.5	21) G	1130	2*	29) JA	1400	1
17) O	870	1*	22) CF	1150	1	30) HF	1430	0.5*
						31) JL	1450	10*

FM: 89 Mc (YSRV) 1 kW – 90 Mc (YSU) 0.25 kW – 101 Mc (YSU) 0.05 kW – 102 Mc (YSR) 0.25 kW.

Radio Television YSU S.A. (Comm.)
(St.'s 2), 7), 11), 13) – **ADDR.:** Apt. Postal 1050, San Salvador. **Te.:** 1050 and 7500. **Cable:** YSUSA – **L.P.:** Pres.: A. Soler Serra. Mgr.: F. Valladares V. Dir. Prgr.: S. Rivera. Dir. Tec.: E. Gamero –

D.PRGR.: All st.'s: 12.00 06.00. **N.:** 03.30, 05.50 and short news every 15 min. – **ANN :** Sp: "En El Salvador, Centro América transmite Radio Cadena YSU" – V by QSL-card and letter. Re. in Sp, E. Prgr.schedule free on request.

Cadena Radial Salvadorena S A.
(St.'s 12), 15), 20) – **ADDR.:** Edif. Torre Lopez 8° piso, San Salvador. **Cable:** CARASAL. **Te.:** 3331 – **L.P.:** Pres.: A. Alfaro – **D.PRGR.:** All st.'s.: 12.00–06.00.

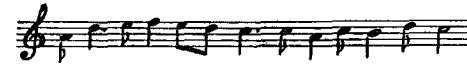
Short Waves:
1) La Voz del Pacifico, 6a Av. Norte 15, Sonsonate.
2) Santa Ana – V. by QSL-card.
3) Alma Cuscatleca Altos del Edificio del Teatro Nacional, San Salvador – **L.P.:** Mgr.: D. M. de J. Salazar. Dir. Tec.: G. C. Vides –

D.PRGR.: **N.:** 18.00, 21.00, 22.00, 00.15, 02.00, 03.00 – **Wrp.:** 18.00, 03.00 (exc. Sun) – **ANN.:** "Transmite R. Nacional de El Salvador, en la América Central" – **INT.-SIG.:** Four notes on Xylophone – V. by QSL-card and prgr.schedule.
4) 29 Ca. Oriente 218, San Salvador – **ANN.:** "Esta es YSC, R. 1015 Ondas Populares y Deportivas en San Salvador, Centro América, Laboremus por la Paz, la Cultura y el Deporte".
5) Cojutepeque, Dept. de Cuscatlan – 6) San Miguel.
7) Apt. Postal 1050, San Salvador – V. by letter.
8) Santa Ana, Dept. de Santa Ana – 9) Ca. Gerardo Barrios 627, San Salvador.
10) 2a Av. Norte 319, San Salvador. **Cable:** YSA – **D.PRGR.:** 12.00–05.00 – **N.:** 12.30, 19.30.

Medium Waves: **D.PRGR.:** Approx. 12.00–05.00.
11) **Radioemisora Salvadorena,** San Miguel.
12) **R. difusora YSDM,** San Miguel.
13) **R. Morazan, Colonia Alfaro,** Ci. de Mejicanos. Belongs to R. TV-YSU. Broadcasts own prgr's at 12.00–06.00.
14) **R. Universal,** 4a Ca. Oriente 228, San Salvador.
15) **Ondas Tropicales,** Ave. Independencia Sur 6, Santa Ana.
16) **R. Vanguardia,** 7a Ca. Oriente 508, San Salvador – **D.PRGR.:** 18.00–20.00, 00.00–04.00.
17) **La Voz de la Democracia,** 6a Ca. Oriente 28, San Salvador.
18) **R. dif. YSQJ,** San Salvador.
19) **La Voz del Tropico,** 4a Ave. Norte 230, San Salvador.
20) **La Voz de Latinoaméricana,** 2a Av. Norte 230, San Salvador.
21) **R. Chaparrastique,** San Miguel.
22) **Ondas Orientales,** 10A, Calle Poniente 17, S. Miguel.
23) **R. America,** San Salvador.
24) **R. Ciros,** 10a Calle Poniente 314, San Salvador.
25) **La Voz Suprema de Occidente,** 25 Ca. Oriente 10, Santa Ana.
26) **R. Emperador,** 3a Ca. Poniente 419, San Salvador.
27) **R. Christal,** Sonsonate – 28) **R. Musical,** Santa Ana.
29) **La Voz del Litoral,** Usulutan.
30) **R. Caribe,** Cojutepeque, Dept. de Cuscatlan.
31) **R. Presencia,** San Salvador.

GUADELOUPE (French West Indies)

L.T.: GMT÷4 h – **Pr.L.:** French.
RADIO GUADELOUPE (R.diff. Télévision Française)
ADDR.: Basse-Terre.
STATIONS: Pointe-a-Pitre 650 kc 20 kW – Basse-Terre 1420 kc 4 kW
HOME SCE.: W 10.20–11.30, 16.15–18.00, 22.45–02.30 (Sat 16.15–02.30). Sun 10.20–02.30.
ANN.: "Ici Basse-Terre, Radiodiffusion Française" – **INT.-SIG.:** Guitar – V. by QSL-card or letter R.p.



GUATEMALA

L.T.: GMT÷6 h – **Pr. L.:** Spanish.
DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL
ADDR.: Edificio de la Tipografia Nacional, Calle 18 de Septiembre 6–72, Zona 1, Guatemala. **Cable:** Tevenac. **Te.:** 23318 – **L.P.:** Dir. Gen.: C. Talavera y Murga. Sub-Dir. Gen.: L. Orantes Alfaro. Chief of TV Prod.: M. Piedra Santa.
STATIONS: All st. comm. exc. 2), 40) (Rel.), 13), 15), 19), 20), 26), 47) (Go.). Location Guatemala City exc. where indicated.
Short Waves: Call: TG––. *=inactive.

	Call	kc	m	kW	Name and h of tr.
1)	ZA	3355	89.45	0.15	R. Club: irr.
2)	LAB	*4900	61.22	0.5	R. Victoria, Mazatenango
3)	NA	5952	50.40	5	R. Cultural: 12.00–03.00
2)		*5970	50.25	0.5	R. Victoria, Mazatenango
4)	AR	5980	50.17	1	R. Quetzal: W 13.00–04.30,
5)	JA	5990	50.08	5	R. Nuevo Mundo: 11.55–06.00
6)	TA	6000	50.00	1	R. Sonora: 12.00–06.00
7)	DA	6020	49.83	1	La Voz de Occidente, Quezaltenango: 12.00–06.00
8)	TQ	6030	49.75	7	R. Internacional: 12.30–06.00,
9)	CO	*6040	49.67	0.5	La Voz del Trópico, Quetzaltenango
10)	XB	6050	49.59	5	R. Centro Musical: 12.00
11)	XX	6060	49.50	1.5	R. Ciro's: W 12.30–06.00,
12)	RLA	*6060	49.50	1	R. Landivar, Quetzaltenango
13)	PA	*6070	49.42	0.4	R. Palmeras
14)	SM	6080	49.34	1.5	R. Nacional San Marcos: W 13.00–04.00, Sun 15.00–24.00
15)	OA	*6100	49.18	1	La Voz de las Américas
16)	QA	6110	49.10	0.5	R. Nacional de Quetzaltenango: W 13.00–04.30, Sun 18.00–02.00
17)	HC	6140	48.86	1	R. Universal: 12.00–06.00
18)	AZ	6150	48.78	0.5	R. Continental: 12.00–06.00(Sun 01.00)
1)	ZA	6160	48.70	0.25	R. Club: 12.00–06.00(Sun 05.30)
19)	WB	6180	48.54	1	R. Nacional: 11.55–06.15(Sun 06.00)
20)	KN	6200	48.39	0.1	R. Latina: W 12.30–05.00,
21)	RT	6255	47.96	0.5	R. Nacional Tikal, Flores Peten: W 01.00–04.00, Sun 01.30–03.30
3)	NB	9670	31.02	5	R. Cultural: 03.00–04.00
19)	WA	9760	30.74	10	R. Nacional: 11.55–06.15(Sun 06.00)
16)	QB	11700	25.64	1	R. Nacional de Quetzaltenango: as 6110 kc
22)	CX	*11750	25.53	0.5	R. Cristal
3)	NC	*11850	25.32	5	R. Cultural

Medium Waves: Call: TG---. °Short Wave. [1] also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
23) BOL	560[1]	10	3) AX	°950[1]	0.5	26) TU	1280	0.5
13) PR	°575	0.4	33) CQ	980	1	42) AJ	1280	0.7
24) Y	590[1]	10	34) AH	1000	0.2	43) MU	1300	0.02
25) RT	610	0.25	35) UX	1020	10	16) Q	°1310	1
26) GA	620	1	10) XA	°1040[1]	10	44) MG	1360	0.6
19) W	°640[1]	10	36) AF	1060	2	6) T	°1390	10
27) LM	660	0.5	7) D	°1070	0.35	45) AC	1400	0.5
28) RS	680	2	22) C	°1080	0.5	46) GH	1410	0.5
29) HR	700	5	20) K	°1100	1	47) RP	1420	0.5
3) N	°720	5	37) RR	1120	0.8	48) MS	1450	0.5
30) RF	750	0.5	15) O	°1140[1]	0.8	49) AG	1460	0.5
31) BX	770	0.5	3) Z	°1170	0.5	9) COA	°1470	0.5
17) HB	°780	1	12) RL	°1180	2	50) IZ	1470	0.5
8) TO	°810	5	38) ED	1210	1	51) HU	1480	0.5
11) X	°850	3	39) LL	1230	0.5	20) WC	°1520	1
14) SM	°860	1.5	40) L	1240	1	52) RE	1540	1
5) J	°880[1]	10	41) LG	1250	0.5			
32) TL	920	5	4) AQ	°1270	1			

Short Waves:
1) 4a. Ave. 12-74, Z-1, Guatemala – **L.P.:** Dir.: H. E. Sagastume.
2) Mazatenango.

3) Apt. 601, Guatemala (Owned by Central American Mission, 3611 Congress Ave., Dallas 19, Texas, USA) - **L.P.**: St. Dir.: G. Liebig. Dir. Prgr.: D. Rutledge. Dir. Tec.: E. Yoder – **D.PRGR.**: **Spanish:** On 720/5952 kc: 12.00–03.00. **English:** On 720–9668 kc: 03.00–04.00 – **ANN.**: E: "These are your Good News Stations, TGN and TGBN". Sp: "Estas son sus emisoras culturales, TGN y TGNA" – **V.** by QSL-card. R.p. – **F.PL.**: 10 kW.

4) 12 Av. 26-27, Z-5, Guatemala – **L.P.**: Dir.: M. Tulio de la Rosa – **ANN.**: "R. Quetzal, La Emisora simbele en Guatemala C.A., 1270 kc Onda Larga, 5980 kc Onda Corta".

5) 6a. Ave. 10–45, Z-1, Apt. 281, Guatemala. **Te.**: 29-06-15 – **L.P.**: Dir. Gen.: H. Gonzales J. Dir. Tec.: J. de la Cerda Wyld – **D.PRGR.**: 12.45–13.15, 19.00–19.30, 01.00–01.30 – **ANN.**: "Esta es R. Nuevo Mundo, desde la ciudad de Guatemala en América central – **V.** by letter and QSL-card. Re. in Sp. Prgr.schedule on request.

6) 5a. Ave. 16–38, Guatemala – **L.P.**: Dir.: M. R. Tejada – **ANN.**: "Con diez mil watts transmite en Guatemala, R. Sonora la estación que da la hora, 1390 kc Onda Larga, 6000 kc Onda Corta".

7) 7a. Ave. 0–26, Zona-1, Quetzaltenango – **L.P.**: Dir. Gen.: M. C. Romero de Rios – **ANN.**: "T. G. D. 1070 kc Onda Larga... T.G.D.A. 6020 kc Onda Corta... R. La Voz de Occidente en Quetzaltenango, Guatemala, C.A." – **V.** by letter. Re. in Sp.

8) 12 Ca. 5–62, Z-1, Guatemala – **L.P.**: Owner & Dir.: J. Monteros L. **ANN.**: "T.G.T.O. R. Internacional de Guatemala en 810 kc Onda Larga, 6030 kc Onda Corta, Auditorio en toda la República, Mejor Música y menos Bla, Bla, Bla..." – **INT.-SIG.**: Electrical Xylophone – **V.** by QSL-card.

9) 7a. Ave. 4a. Ca. Coatepeque, Quetzaltenango.

10) Pasaje Aucinena 8.27, Z-1, Guatemala – **L.P.**: Dir.: J. A. Fernandez – **ANN.**: "T.G.X.A. R. Centre Guatemala 1040 kc Onda Larga, 6050 kc Onda Corta" – **V.** by QSL-card or letter.

11) 8a. Ca. 2–28, Guatemala – **L.P.**: Dir.: H. H. Moncrieff – **N.**: 13.00, 18.15, 04.00 – **ANN.**: "R. Ciro's la Emisora musical de Guatemala" – **INT.-SIG.**: Xylophone – **V.** by letter – **F.PL.**: m.w. 10 kW.

12) 4a. Ave. 14, Quetzaltenango – **L.P.**: Dir. Gen.: C. A. Diaz. Mgr. & Dir. Tec.: H. Diaz M.

13) Centre de Recreo Km. 58 Autopista San Jose, Guatemala – **L.P.**: Dir.: C. Humberto M.

14) Palacio Maya, San Marcos – **L.P.**: Dir.: W. A. López S.

15) 2a. Ave. 13–39, Z-1, Guatemala – **L.P.**: Dir.: J. Flamenco y Cotero – **ANN.**: "TGO La Voz de Las Americas" – **V.** by QSL-card – Authorization requested to operate with 0.5 kW in the 25 m.b

16) 14 Ave. C-47 Zona 1, Quetzaltenango – **L.P.**: Dir.: F. S. Valdez – **ANN.**: "Difunden las estaciones TGQ R. Nacional Quetzaltenango Guatemala" (followed by 4 Xylofon-notes) – **V.** by QSL-card or letter. Re. in Sp. – **PUB.**: Monthly prgr.schedule free on request.

17) 7a Ave. 934, ap. 403, Guatemala - **L.P.**: Dir.: M. T. Conde – **ANN.**: "R. Universal y R. Central en cadena" – **V.** by QSL-card or letter.

18) 13 Ca. 12-26, Guatemala – **L.P.**: Dir.: R. Viscaino R. – **ANN.**: "Difunden las emisoras de sonido perfecto y alta fidelidad R. Continental desde la Capital de Guatemala, una audición perfecta en toda la República" – **V.** by QSL-card or letter.

19) Calle 18 de Septiembre 6-72 Zona 1, Guatemala – **L.P.**: Dir.: Carlos Talavera y Murga – **ANN.**: "Esta es TGW R. Nacional de Guatemala, Una estación al servicio de la Patria" – **V.** by QSL-card or letter.

20) 12a. Ave. 28–35, Guatemala – **L.P.**: Dir.: R. Contreras R. – **V.** by QSL-card.

21) Flores Peten – **L.P.**: Dir.: G. H. Morales.

22) 5a. Calle 1–68, Z-1, Guatemala – **L.P.**: Dir.: J. Quiñenoz Castillo. **Medium Waves:** Approx. **D.PRGR.**: 12.00–05.00.

23) **R. Cinco Sesenta,** 8a. Ave. 9–23, Z-1, Guatemala – **D.PRGR.**: 12.00–06.00.

24) **R. Progreso,** Ca. Marti 10–39, Z-2, Guatemala – **D.PRGR.**: 24 h – **N.**: every 15 min – **V.** by letter.

25) **R. Tacana,** "La Voz San Pedrana", San Pedro Sacatepequez, San Marcos – **L.P.**: Dir.: J. A. Mansilla.

26) **R. El Campo,** 12 Ca. 5–62, Z-1, Guatemala – 13.00–04.00.

27) **R. Seis Sesenta,** Tiquistte, Escuintla – **L.P.**: Dir.: J. González M.

28) **R. Sur,** Escuintla – **L.P.**: Dir.: J. I. Soto.

29) **R. Mundial,** 2a. Ave. 6–45, Z-1, Guatemala – **D.PRGR.**: 24 h.

30) **R. Faro Aviateca,** 1a. Ca. 6–90, Z-9, Guatemala – **D.PRGR.**: W 13.00–15.00. Sun 14.00–01.00.

31) **R. Corporacion,** Edif. "Chavez", Quezaltenango – **D.PRGR.**: W 12.00–06.00. Sun 14.00–02.00.

32) **La Voz de la Telefunken,** 4a. Ca. 6–20 Ave., Z-14, Guatemala. **Cable:** Telefunken – **L.P.**: Dir. Gen.: E. Mayorga L. Dir. Tec.: C. R. Guevara – **D.PRGR.**: 12.00–06.00 – **N.**: 12.30, 24.0;, 05.00 – **INT.-SIG.**: Gong – **ANN.**: "La Voz de la Telefunken 920 kc, Guatemala".

33) **R. Central,** 7a. Ave. 9a. Ca., Edif. Morales, Z-1, Guatemala.

34) **R. Mil,** 6a. Ave. 15–40, Z-1, Guatemala – **D.PRGR.**: 12.30–05.00 – **ANN.**: "Es R. Mil naturalmente".

35) **R. Panamericana,** Carretera Roosevelt, Villa Victoria, Z-7, Guatemala – **D.PRGR.**: 11.55–06.00 – **ANN.**: "Esta es R. Panamericana de Guatemala".

36) **R. Indiana,** Av. Libertad, Mazatenango – **D.PRGR.**: W 11.30–04.30. Sun 13.30–24.00.

37) **R. Reloj,** 16 Ca. 3–32, Z-1, Guatemala – **D.PRGR.**: 12.45–04.00 (Sun 05.00).

38) **R. Mil Doscientos Diez,** 3a. Ave. 13-07, Z-1, Guatemala – **D. PRGR.**: W 12.00–06.00. Sun 13.00–05.00.

39) **R. Constelacion,** 10a, Ca. 6–22, Z-1, Guatemala.

40) **R. Victoria,** 2a. Ave. Norte 12, Mazatenango.

41) **R. Jumay "La Voz de los Mayas",** 9a. Ca. 0–02, Z-1, Guatemala – **D.PRGR.**: W 12.00–06.00. Sun 13.00–02.00.

42) **R. Tropicana,** 4a. Ave. 19 Ed. Diaz Gomar, Escuintla – **D.PRGR.**: 11.00–05.00(Sun. 02.00).

43) **La Voz de la Buena Musica,** 13 Ca. 9–62, Z-1, Guatemala – **D. PRGR.**: 13.00–05.00.

44) **R. Nacional Matias de Galvez,** Pto. Matias de Galvez, Izabal – **D.PRGR.**: 13.00–05.00.

45) **R. Cultural de Colomba,** Colomba, Quezaltenango.

46) **R. Xelajú,** 13 Ave. 7–18, Z-1, Quetzaltenango – **D.PRGR.**: W 12.30–04.00. Sun 14.00–02.00.

47) **La Voz de la Eterna Primavera,** 8a. Ca. 3–18, Z-1, Guatemala – **D.PRGR.**: W 12.00–05.30. Sun 14.00–20.00.

48) **R. Nacional,** 4a. Ave. 8a. Ca. 5, Mazatenango – **D.PRGR.**: W 13.00–20.00, 00.00–04.00. Sun 19.00–23.00.

49) **La Voz de Huehuetenango,** Apt. 13, Huehuetenango – **D.PRGR.**: W 13.00–23.30, 01.00–04.00. Sun 16.00–22.00.

50) **La Voz del Atlántico,** Colonia Gamero, Z-6, Guatemala.

51) **R. Hunapuh,** Antigua – **L.P.**: Dir.: C. Ruben Cabañas – **D. PRGR.**: W 13.00–04.00. Sun 16.00–24.00.

52) **R. Modelo,** "La Voz de Retalhuleu", Ca. Ferrocarril, Retalhuleu.

HAITI

L.T.: GMT÷5 h – **Pr.L.**: French, Creole.

DEPARTMENT DES TRAVAUX PUBLICS,
Service des Télégraphes, Téléphones & Radios, Port-au-Prince.

STATIONS: Short Waves: Call: 4V––. Comm. exc. 1), 2), 10), 12) (Religious).

	Call	kc	m	kW	Name and h of tr.
1)	U	2410	124.5	0.25	R. Lumière, Les Cayes: 10.00–12.45, 21.30–03.00
2)	—	2450	122.5	0.25	R. St. 4VEH, Cap Haitien
3)	GS	5020	59.76	0.12	R. Independance, Gonaives: 11.00–14.00, 17.00–20.00, 23.00–02.30
4)	GA	5030	59.64	0.2	R. Capois la Mort, Port-de-Paix: 11.00–19.00, 23.00–03.00
5)	AF	5090	59.00	0.2	Voix de la Grande-Anse, Jérémie
6)	CB	5740	52.26	0.3	Voix du Sud, Aux Cayes: 19.30–03.00
7)	B	5985	50.13	7.5	R. Commerce, Port-au-Prince: W 11.00–04.00. Sun 11.30–24.00
2)	—	6002	49.98		R. St. 4VEH, Cap Haitien
8)	EB	6015	49.88	0.75	R. Caraibes, Port-au-Prince: 11.00–04.00
9)	CP	6075	49.38	0.15	Voix du Nord, Cap Haitien: 12.00–15.00, 20.30–01.30
1)	O	6090	49.20	0.25	R. Lumière, Les Cayes: 10.00–13.30
10)	—	6100	49.18	0.54	Voix de l'Ave Maria, Cap Haitien
2)	E	6120	49.02	2.5	R. St. 4VEH, Cap Haitien
11)	WA	6155	48.74	0.25	R. Citadelle, Cap Haitien: 12.00–15.00
12)	M	6165	48.66	1	R. Manrèse, Port-au-Prince: 12.00–13.00, 22.00–24.00
13)	SC	6178	48.55	0.2	R. Saint Marc: 12.00–15.00, 19.00–01.00
14)	HW	6195	48.43	1	R. Haiti, Port-au-Prince: W 11.00–04.00. Sun 13.30–03.00
1)	VU	9635	31.14	0.25	R. Lumière, Les Cayes: 12.45–13.30
2)	EH	9770	30.71	0.5	R.St. 4VEH, Cap Haitien
2)	EJ	11835	25.35	2.5	R.St. 4VEH, Cap Haitien
2)	WI	21520	13.94	0.5	R.St. 4VEH, Cap Haitien

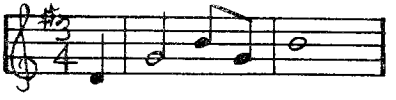
Medium Waves: °=Short Waves.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
1)	I	°760	1	2)	EF	°1035	20	15)	W	°1330	1.5
1)	UE	780	0.25	7)	A	°1080	1.5	23)	S	1385	0.5
15)	NL	860	0.2	20)	F	1120	0.2	24)	GM	1430	1
16)	2A	880	0.15	8)	AB	°1150	1	9)	EA	°1460	0.15
17)	CD	960	0.3	21)	RD	1170	0.25	25)	PE	1475	0.2
18)	CPS	990	0.2	1)	IE	1180	0.25	26)	A2F	1530	0.15
19)	PW	1020		22)	YM	1250	0.6				

Short Waves:

1) Les Cayes – **L.P.**: Dir.: L. A. Markwood. Dir. Tec.: D. Hartt – **D.PRGR.**: **N. in French:** 12.30, 21.30, 22.30, 00.30, 01.30. **N. in Creole:** 11.30, 17.30 (Sun), 23.30. **English lessons:** Mo–Thurs 12.00, 24.00. **Spanish lessons:** Fri, Sat 12.00, 24.00. **Spanish:** D 13.00–13.30 on 9635 kc. Sun also 02.30 – **Mbg.**: D 01.00 – **Wrp.**: D 12.15, 21.45 – **ANN.**: "Ici Lumière, Poste Culturel Haitien, Aux Cayes, Haiti, Grandes Antilles" – **INT.-SIG.**: "The light of the World is Jesus" played on piano – **V.** by QSL-card. Prgr.schedule on request – **F.PL.**: FM and relay st. at Port-au-Prince.

2) Box 1, Cap Haitien. **Cable:** Ormiso – **L.P.:** Dir. Gen.: Dr. E. Erny. Mgr. & Dir. Tec.: M. E. Picazo. Dir. Prgr.: Miss M. Stockton – **D.PRGR.:** on all freq's: 11.00–14.00, 17.00–01.00. Sat, Sun, Mo also 01.00–04.00 – **English:** D 11.00–14.00[1], Sun 19.00–21.00, Sat–Mo 01.00–04.00[3] – **N.:** 11.15 (Sun), 12.00, 01.00 – **French & Creole:** D 17.00–21.00[2], 23.00–01.00[2] – **N. in French:** 17.00, 20.30, 23.00 – **Spanish:** D 21.00–23.00[1]. **N.:** 22.00.
[1] to We. Indies; [2] to Haiti; [3] to No. America.
DX-Prgr.: Listeners Post: Sat 03.00–03.30 – **Wrp.:** Sun 11.29, W 12.14 – **L.L.** (French-Creole-Spanish): Tues, Thurs, Sat 00.00, 17.30 – **ANN.:** F: "Ici La Voix Evangelique d'Haiti" or "Ici Radio 4VEH" – Sp: "Escucha Ud. La Voz Evangelica de las Antillas" or "Radio 4VEH" – E: "This is the Evangelistic Voice of the West Indies" or "This is Radio 4VEH" – **INT.-SIG.:** Gong.



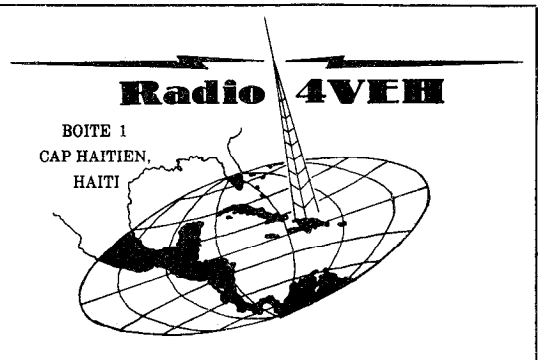
V. by QSL-card or letter. Rp. preferred but not required. Re in E, Sp, F – **F.PL.:** By spring 1963 several more tr.'s in operation in the 25 m.b. and other bands – **PUB.:** Prgr.schedule (twice a year) free on request.
3) Gonaives – **L.P.:** Dir.: E. Mitton – **ANN.:** "Ici R. Indépendance, Poste 4VGS a Gonaives, Rép. d'Haiti, Grandes Antilles" – **V.** by QSL-card.
4) Port-de-Paix – **L.P.:** Dir. Tec.: G. Arthamin.
5) Jérémie – **L.P.:** Dir. Tec.: A. Félix – Freq. to be changed.
6) Aux Cayes – **L.P.:** Dir.: Th. Beague.
7) B.P. 1143, Port-au-Prince. **Cable:** Radioco – **L.P.:** Dir. Gen.: S. Lassegue. Dir. Tec.: A. Brown – **D.PRGR.: La Voix de la Republique d'Haiti:** D 12.00, 19.30, 23.15, 02.30 (relayed by most st.'s at Port-au-Prince. **N.:** Every h on the h at 14.00–22.00, 02.45. **Arabic** (special comm. prgr.): Sun 17.30–18.15 for Arabic-speaking residents. **German/French:** Sun 22.00–23.00. **English:** D 11.30–12.00, 01.30–02.00 – **ANN.:** "Ici R. Commerce Poste de 4VA & 4VB emettant en onde longue sur la freq. de 1080 kc & celles des 49 m de Port-au-Prince Capitale de la Rép. d'Haiti, Grandes Antilles" – **V.** by QSL-card or letter.
8) 17, Ruelle Chavannes, Port-au-Prince – **L.P.:** Dir. Gen. & Dir. Tec.: A. Brown – **D.PRGR.: N.:** 13.00, 00.00 – **German/French:** W 02.30–03.00 – **Wrp.:** 21.00, 00.30 – **ANN.:** "Ici R. Caraïbes, Poste 4VAB et 4VEB, émettant sur la bande des 260 m 86 et celle des 49 m de Port-au-Prince, Capitale de la Rép. d'Haiti, Grandes Antilles" – V. by QSL-card or letter. Rp.
9) Cap Haitien – **L.P.:** Dir. Tec.: E. Anacréon – **ANN.: F.:** "Ici la Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, affiliée a la chaine de la Paix des Nations Unies...". **Sp.:** "La Voz del Norte". **E.:** "The Voice of the North".
10) Eveché du Cap Haitien, Cap Haitien – **L.P.:** Dir. Gen.: A. Jamier. Dir. Tec.: F. Sénécal – **D.PRGR.: N.:** 11.30, 23.00 – **ANN.:** "Ici la Voix de l'Ave Maria".
11) Cap Haitien – **L.P.:** Dir. Tec.: S. Wainwright – **ANN.:** "Ici R. Citadelle, Poste 4VWA au Cap Haitien, Capitale touristique de la Rép. d'Haiti, Grandes Antilles" – V. by QSL-card.
12) P.O. Box 525, Port-au-Prince – **L.P.:** Dir.: R. P. Origène, S. J. Dir. Tec.: F. Ross, E. Desgagnes, S. J. Dir. For. Rel.: R. P. Origène Grenier, S. J. – **D.PRGR.: N.:** 17.45. **English:** 15 min. prgr. on Weekdays, 30 min. prgr. on Sun – **ANN.:** "Ici R. Manrèse, poste 4VM à Port-au-Prince, Haiti – Vous écoutez R. Manrèse" – **V.** by letter or QSL-card – **F.PL.:** m.w. station.
13) Rue Louverture 158, St. Marc – **L.P.:** Dir. Tec.: E. S. Côtes – V. by letter.
14) P.O. Box 737, Port-au-Prince – **L.P.:** Dir. Tec.: R. Widmaier – **D.PRGR.: N.:** 11.45, 12.15, 15.00, 17.30, 20.00, 22.45, 02.30. **English:** Sun 00.30 (irregular). **English or Spanish special prgr.s:** Sun 23.00–23.30 (fortnightly) – **ANN.:** "Ici R. Haiti, Postes 4VW, 4VRH et 4VWH, a Port-au-Prince". (Sometimes adds: "Affiliée a la Columbia Broadcasting System et a la Chaine de la Paix des Nations Unies, ici Radio Haiti...").
Medium Waves:
15) **Centre de R.Diff. Commerciale,** 889 Blvd. Harry Truman, Martissant, Port-au-Prince – **L.P.:** Dir. Tec.: N. St. Laurent – **D.PRGR.:** 11.00–15.00, 17.00–23.00 – **F.PL.:** s.w. 5040 kc.
16) **R. Nationale,** Ave. Jn. J. Dessalines 265, Port-au-Prince – **L.P.:** Dir. Tec.: A. Féquière – **D.PRGR.:** W 10.00–13.00, 19.00–23.00 Sun 10.00–01.00.
17) **R. Carillon,** Rue Dr. Aubry 157, Port-au-Prince – **L.P.:** Dir. Tec.: C. Desmangles – **D.PRGR.:** W 11.00–13.00, 17.00–23.00. Sun 14.00–02.00. Actually on 970 kc.
18) **R. Cacique,** Bellevue, Port-au-Prince – **L.P.:** Dir.: J. Claude Carrié – **D.PRGR.:** W 11.30–14.00, 17.00–03.00. Sun 13.00–18.00.
19) **R. Petionville,** Petionville (inactive).
20) **R. Union,** 1 Ruelle Louverture, Port-au-Prince – **L.P.:** Dir.: R Achille – **D.PRGR.:** W 11.30–14.00, 17.00–04.00. Sun 13.00–23.00.
21) **R. Tropiques,** Ave. John Brown, Port-au-Prince – **L.P.:** Dir.: R. Dambreville – **D.PRGR.:** 15.00–03.00(Sun 22.00) – **ANN.:** "Canal Onze Soixante-Dix, Avenue John Brown, (Lalue); le Poste: Radio Tropiques".
22) **R. Diffusion Hatienne,** Ruelle Jeanty, Port-au-Prince – **L.P.:** Dir.: Y. Michel – **D.PRGR.:** W 12.00–02.30. Holidays: 12.00–23.00. Sun 16.00–22.00 – **ANN.:** "Pour le Rayonnement de la Culture et l'Avancement du Peuple Haitien, ici la Radio-diffusion Haitienne, Poste 4VYM...".
23) **R. Port-au-Prince,** Stade Sylvio Cator, Port-au-Prince – **L.P.:** Dir.: A. Hérad – **D.PRGR.:** 10.45–14.30, 17.00–03.00.
24) **Magloire Broadcasting Circuit,** Rue Americaine, Port-au-Prince – **L.P.:** Dir.: Franck C. Magloire (owner of local newspaper "Le Matin") – **D.PRGR.:** W 11.30–16.00. Sun 13.00–01.00.
25) **La Voix des Antilles,** Rue Capois 68, Port-au-Prince – **L.P.:** Dir. Tec.: A. P. Louis – **D.PRGR.:** 10.30(Sun 12.00)–03.00.
26) **R. Quisqueya,** Rue des Miracles 88, Port-au-Prince – **L.P.:** Dir.: F. E. Neptune – **D.PRGR.:** 11.00–22.00 – **ANN.:** "Au service du commerce, au service des hommes d'affaires et du public en général, ici R. Quisqueya".

HONDURAS (British)

L.T.: GMT ÷ 6 h – **Pr. L.:** English, Spanish.
BRITISH HONDURAS BROADCASTING SERVICE (Go.)
FI.: By state and license fees – **ADDR.:** P.O. Box 315, Belize. **Cable:** Incom. **Te.:** 382.
L.P.: Dir.: R. Castillo. Dir. Tec.: J. Bedan.
STATIONS: 830 kc 361 m 5 kW – 3300 kc 90.85 m 5 kW.
HOME SCE.: English: W 12.30–15.30, 18.00–18.45, 00.30–04.05. Sun 12.30–18.45, 00.30–04.20 – **N.: Wrp.** 13.00, 15.00, 18.30, 01.00, 03.00. **Spanish:** 18.45–18.55, 22.30–00.30. **N.:** 18.45, 00.00.
ANN.: E. "This is the British Honduras Broadcasting Service" – **Sp.** "Este es el Servicio Radiodifusor de Honduras Británica" – **INT.-SIG.:** At opening: Nat. Anthem. At Closing: Greensleeves – V. by QSL-card. Rp. – **F.PL.:** mw to 20 kW.

HONDURAS (Rep.)

L.T.: GMT ÷ 6 h – **Pr.L.:** Spanish.
DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS – ADDR.: Edif. Comunicaciones Electricas, Tegucigalpa. **Cable:** Gentel. **Te.:** 3210.



La Voix Evangelique d'Haiti

- 1035 Kc.
- 6120 Kc., 49 m
- 9770 Kc., 31 m

ENGLISH · SPANISH · FRENCH

International Radio Voice of
THE ORIENTAL MISSIONARY SOCIETY
850 N. Hobart Blvd.,
Los Angeles 29, Calif., U.S.A.

L.P.: Dir. Gen. de Com. Electricas: Ing. F. C. Garcia.
STATIONS: All st.'s comm. exc. 22) and 29) Rel, Cultural. Call: HR–.
Short Waves:

	Call	kc	m	kW	Name & h of tr.
1)	LC	4775	62.84	1	R. Continental, San Pedro Sula: 13.00–04.00
2)	ST	4790	62.29	0.5	R. Primero de Mayo, Tela: 13.00–04.00
3)	QN3	4905	61.16	0.5	La Voz del Atlantico, Puerto Cortez: 15.00–03.00
4)	US	4940	60.73	1	La Voz de Suyapa, Tegucigalpa: 11.00–03.00
5)	QW	4995	60.06	0.5	R. Juventud, Tela: 13.00–05.00
6)	NL	5875	51.05	1	La Voz de Honduras, Tegucigalpa: 12.00–05.00
7)	HR5	5960	50.34	0.5	La Voz de Occidente, Santa Rosa de Copan: 13.00–04.00
8)	VW4	5965	50.28	0.5	La Voz de Centro America, San Pedro Sula: 14.00–05.00
9)	PI	5995	50.04	1	El Eco de Honduras, San Pedro Sula: 13.00–04.00
10)	OW2	6020	49.83	1	R. Monserrat, Tegucigalpa: 12.00–04.00, 11.30–04.00
11)	TV	6035	49.71	1.5	R. Tegucigalpa: 12.00–06.00
12)	LP3	6050	49.59	10	R. America, Tegucigalpa: 13.00–05.00
13)	YN4	6060	49.50	0.3	La Voz del Merendon, San Pedro Sula: 12.00–04.00
14)	MH5	6075	49.38	0.6	La Voz del Junco, Santa Barbara: 12.00–06.00
15)	NQ4	6090	49.26	0.5	R. Morazan, Tegucigalpa: 12.00–04.00
16)	XW2	6110	49.10	0.5	R. Comayagüela: 12.00–04.00
17)	Q4	6125	48.98	1	R. Suyapa, San Pedro Sula: 12,00–05.00
18)	ME2	6135	48.90	0.9	La Voz del Patio, La Ceiba: 12.00–06.00
19)	XN4	6145	48.82	0.3	R. Estrella, Tegucigalpa: 12.00–06.00
20)	UC	6155	48.74	1	R. Centro, Tegucigalpa: W 12.00–05.00. Sun 14.00–03.00
21)	TW4	6175	48.58	1	R. & Television Hondureña, Tegucigalpa: 12.00–05.00
22)	MT4	6185	48.40	0.5	R. Molino Rojo, San Pedro Sula: 12.00–04.00
23)	D2	6195	48.43	0.5	La Voz de Atlantida, La Ceiba: 12.00–04.00
24)	ZN	*9610	31.22	2	R. Pinares de Honduras, Tegucigalpa: 13.00–04.00

Medium Waves: Call: HR– – °=Short Wave. ¹=also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
25) TD	550	0.5	4) VS	°925		28) VC	1380	1
12) LP	°610	10	11) TV	°980	1.5	2) ST	°1390	
22) MT	°640	1	19) XN	°1040		9) P	°1400	0.5
6) N	670¹	10	3) QN	°1150	0.5	5) QW	°1420	0.5
21) TW	°715	1.5	16) XW	°1200	0.5	29) LV	1450	0.5
13) YN	°740	1	17) Q	°1250	1	30) TI	1460	0.5
15) NQ	°775	10	26) XA	1280	0.3	1) LC	°1470	
10) OW	°850	2	27) QR4	1320	0.5	8) VW	°1470	2.5
20) U	865	10	18) ME	°1350	0.5			
24) ZN	°890		7) HR	°1370				

Short Waves:
1) Sr. L. J. Canahuati, San Pedro Sula.
2) Sindicato de Trabajadores de la Tela RR. Co., Tela, Atlantida.
3) Barrio "La Curva", Puerto Cortez.
4) Iglesia Católica Nacional, Apt. Postal 480, Tegucigalpa, DC – L.P.: Dir. Gen.: Rev. J. M. Molina S. Dir. Tec.: O. Tróchez A – D.PRGR.: N.: 12.00, 24.00 – ANN.: "R. Internacional, La Voz de Suyapa, Emisora Catolica de Honduras" – V. by QSL-card. Re. in Sp, E or F.
5) Sr. A. Griffin h., Barrio "El Centro", Tela, Atlantida.
6) Av. Lempira 8a, Ca. 410, Tegucigalpa – L.P.: Dir. Gen.: R. Breve M. Dir. Tec.: F. Pon Aguilar – D.PRGR.: N.: 12.30, 18.30, 23.45, 03.00, 04.30 – ANN.: "Esta es HRN la primera Emisora de Honduras, desde Tegucigalpa, Honduras, Centro America" – V. by letter – F.PL.: Nat. network with st's in 3 cities.
7) Dr. A. Rendón h., Santa Rosa de Copan.
8) Sr. J. Sikaffy, Apt. 120, San Pedro Sula.
9) Apt. 24, San Pedro Sula. Cable: Radio Sula – L.P.: Dir. Gen.: A. A. Diaz Z. Mgr.: F. Diaz Z. Dir. Tec.: L. C. Gomez – D.PRGR.: N.: 17.00, 01.15 – English Lesson: 23.30–23.45 – ANN.: "Estas son HRP1 y HRPX El Eco de Honduras, desde San Pedro Sula, Honduras, CA" – V. by letter. Re. in Sp, E and F.
10) Tegucigalpa DC. Cable: Monserrat – ANN.: HROW R. Monserrat, la emisora de los hondureños en Tegucigalpa, Honduras, Centro América" – V. by QSL-card.
11) Sr. E. J. Chahin, Tegucigalpa, DC.
12) Apt. Postal 259, Tegucigalpa. Te.: 1371 – L.P.: Mgr.: R. Silvio P. Dir. Tec.: L. Carlos G – D.PRGR.: N.: 12.00, 18.30, 00.30, 05.30 – ANN.: "Estas és R. América en Tegucigalpa" – V. by QSL-card.
13) Sr. J. J. Romera, San Pedro Sula – V. by letter.
14) Sr. M. H. Hasbun, Santa Barbara.
15) Sr. F. P. Aguilar, P.O. Box 393, Tegucigalpa, DC.
16) Sr. H. Andino, Comayagüela – V. by QSL-card.
17) Apt. 33, San Pedro Sula – D.PRGR.: N.: 13.00, 18.00, 00.00, 04.00 – ANN.: "HRQ R. Suyapa, San Pedro Sula, Honduras, Centroamerica" – V. by QSL-card and letter.
18) Professor G. Irias, La Ceiba, Atlantida.
19) Sr. V. Zavala, Tegucigalpa, DC.
20) Apt. Postal 642, Tegucigalpa. Te.: 3801 – L.P.: Dir. Gen.: M. Villeda T. Dir. Tec.: F. P. Aguilar – D.PRGR.: N.: 12.00, 13.10, 18.00, 03.00 – ANN.: "Esta es Radiocentro, la emisora del centro de su radio..." – INT.-SIG.: four notes on Xylophone – V. by letter – F.PL.: New st. "R. Exitos".
21) Apt. 734, Tegucigalpa, DC – ANN.: "Radio-Televisión Hondureña. – V. by letter.
22) Sr. M. Morales, San Pedro Sula.
23) Suc. Ing. M. R. Moncada, La Ceiba, Atlantida.
24) Sr. E. J. Chahin, Tegucigalpa, DC.

Medium Waves:
25) **R. Progreso**, El Progreso, Yoro – 26) **La Voz de Choluteca**, Choluteca – 27) **La Voz del Pueblo**, Tegucigalpa – 28) **La Voz Evangelica de Honduras**, Tegucigalpa – 29) **R. Valladolid**, Comayagua – 30) R. **Santa Lucia**, Tegucigalpa.

JAMAICA

L.T.: GMT –5 h – Pr. L.: English.

R. JAMAICA LTD. (Comm.)

FI.: By adv. – AD.: 12 mins. per h – ADDR.: 32 Lyndhurst Road, Cross Road, Kingston 5. Cable: Broadco. Te.: 68151 – L.P.: Gen. Mgr.: K. C. MacKenzie.
STATIONS:

Mandeville	770 kc	5 kW	Point Galina	580 kc	5 kW
Kingston	720 –	5 –	Montego Bay	550 –	5 –

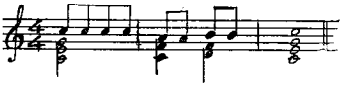
HOME SCE. in English: 09.45–05.00(Sat 06.00).
N. (relay BBC): 13.00, 02.00 – Wrp.: 11.05, 02.29 Imminent Hurricane warnings on the h every h of transmission.
ANN.: "This is R. Jamaica and Rediffusion" – V. by QSL-card.

JAMAICA BROADCASTING CORPORATION (Comm. and Public Service)

FI.: By adv. and Go. aid – AD.: Max. 10 min .per h – ADDR.: 5 South Odeon Ave., Kingston. Cable: Jarad. Te.: 67541-5 – L.P.: Gen. Mgr.: A. L. Hendriks. Dir. Tec.: G. L. Stewart. Dir. Prgr.: F. M. Needham.
STATIONS (Systems: Gates, RCA):

Kingston	560 kc	5 kW	Spur Tree	620 kc	5 kW
Montego Bay	700 –	5 –	Point Galine	750 –	5 –

FM: Kingston 95.1 Mc 1.2 kW, Half Way Tree 99.9 Mc 0.08 kW, Christiana 91.1 Mc 1.2 kW,
N.: W: 10.30, 11.30, 12.00, 12.30, 13.00*, 13.30, 14.30, 15.30, 16.30, 18.30, 20.30, 22.30, 23.00*, 23.30, 00.30, 03.00*, 04.30. Sun: 12.00, 13.00*, 15.30, 18.30, 21.30, 22.30, 23.00*, 03.00*, *)=BBC – Wrp.: 10.30, 17.00, 23.10 – Govt. Prgr.s: W 22.00, Tues. 02.00, Thurs, Sat 00.00. Sun 18.45, 23.30.
ANN.: "This is the JBC – the Voice af Jamaica" – INT.-SIG.:



V. by QSL-card. Rp. – PUB.: Prgr. schedule (weekly).

LEEWARD ISLANDS

L.T.: GMT –4 h – Pr. L.: English.

Antigua

ANTIGUA BROADCASTING SERVICE (Go.)

ADDR.: St. Johns, Antigua – L.P.: Mgr.: E. A. M. John.
STATION: 644 kc 0.5 kW.
HOME SCE. in English: W 10.30–12.00, 16.00–18.00. Sun 20.00–02.30.

Montserrat

RADIO MONTSERRAT (Go.)

ADDR.: P.O. Box 201, Plymouth, Montserrat – L.P.: Dir. Tec.: F. Darby.
STATION: 1550 kc 0.25 kW.
HOME SCE. in English: Mo-Fri 00.00–02.00; Sat 15.00–16.00, 00.00–02.00; Sun 20.00–22.00.

St. Kitts

RADIO STATION ZIZ (Go.)

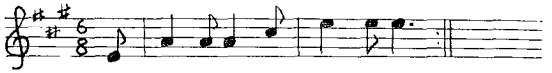
ADDR.: ZIZ, St. Kitts – L.P.: Broadc. Officer: K. Osborne.
STATION: ZIZ 570 kc 0.66 kW.
HOME SCE. in English: 22.00–01.00.

MARTINIQUE (French West Indies)

L.T.: GMT÷4 h – **Pr. L.:** French.
R. MARTINIQUE (R. diff. Télévision Française).
ADDR.: Clairiere, Fort de France. **Te.:** 6060 – **L.P.:** Dir.: A. Bazire. Dir. Tec.: G. Guesdom.
STATIONS (Systems: Thomson-Houston, TRT).

1500 kc	200.0 m	50 kW		4895 kc	61.29 m	8	kW
2420 –	123.9 –	8 –		5994 –	50.04 –	1.5	–
3315 –	90.50 –	8 –					

HOME SCE.: 10.15–02.30 (Sat 10.15–04.00) on 1500/5995 kc; 10.15–16.00 on 3315 kc, 16.00–20.00 on 4895 kc, 20.00–02.30 (Sat 04.00) on 2420 kc.
N.: 10.30, 11.30, 13.00, 14.00, 15.30, 16.30, 17.00, 17.30, 19.00, 20.00, 22.00, 23.00, 23.30, 02.20 – **Wrp.:** 17.30, 23.30 – **L.L.:** Mo, Wed, Fri 12.30 – **T.S.:** on the h.
ANN.: "Ici Radiodiffusion Française Antilles, Guyane" – **INT.-SIG.:** First eight notes of "Adieu Foulards, Adieu Madras"; piano.



V. by letter.

MEXICO

L.T.: GMT÷6 h (Mexico generally), GMT÷7 h (Sonora, Sinaloa, Nayarit and Lower Cal.), GMT÷8 h (Upper Cal.) – **Pr.L.:** Spanish.
DIRECCION GENERAL DE TELECOMUNICACIONES
Departemento de Radiodifusion – **ADDR.:** Col. Narvarte, Mexico,DF.
L.P.: Dir. Gen.: Eng. E. Diaz Gutierrez.
STATIONS: All st.'s comm. exc. 1), 2), 6), 12), 15), 17), 22), 80), 81) (XEAD only), 109) (XEJM only), 183) (Cultural).
Short Waves: Call: XE––. *=inactive.

Call	kc	m	kW	Name and h of tr.
1) SE	2380	126.0	0.35	Sria de Educación Pública, Mexico
2) JG	4820	62.24	0.2	Emis. Casa de la Cultura, Gadalajara, Mo 04.00–05.00
3) OI	6010	49.92	2.5	R. Mil, Mexico, 12.00–07.00
4) UW	6020	49.88	0.25	El Eco de Sotavento, Vera Cruz, 11.30–06.00
5) KW	*6030	49.75	0.5	R. Continente, Morelia
6) QOC	6045	49.63	0.25	R. Universidad Potosina, San Luis Potosa
7) XG	6065	49.46	5	La Voz de Mexico, Mexico, 12.20–06.00
8) CMT	6090	49.26	1	R.dif. XECM/XECMT Ci. Mante, 13.00–03.00
9) QM	6105	49.14	0.25	Sistema R. Yucatan, Merida, 13.00–06.00
10) RCM	*6130	48.94	0.1	R. Central de Mexico, Mexico
11) WW	6165	48.66	10	La Voz de la America Latina, Mexico
12) XA	*6175	48.58	0.1	R. Gobernacion, Mexico
11) WW	9515	31.53	10	La Voz de la America Latina, Mexico, 11.45–05.00 (Mo 05.30)
13) FT	9545	31.43	0.25	La Voz de Veracruz, Vera Cruz, 11.30–05.00
14) TT	9555	31.40	0.5	La Hora Exacta, Mexico, 13.00–06.00
15) YU	9600	31.25	0.25	Universidad Nac. de Mexico irr.
16) BT	*9625	31.17	10	R.dif. XEB/XEBT, Mexico
16) QQ	*9680	30.99	1	R.dif. XEQ/XEQQ, Mexico
17) NN	*11780	25.47	0.5	R. XEN/XENN, Mexico
18) BR	11820	25.38	0.15	El Heraldo de Sonora, Hermosillo, 13.00–05.00
19) LZZ	*11860	25.29	1	R. Novedades, Mexico
20) HH	11880	25.25	5	R.dif. Comerciales, Mexico, 12.00–06.00
20) RR	15110	19.85	1	R.dif. Comerciales, Mexico, 12.00–06.00
11) WW	15160	19.79	10	La Voz de la America Latina, Mexico
21) SC	15205	19.73	5	R.dif. XEMC/XESC, Mexico, irr.
22) RU	*15300	19.60	0.25	Universidad de Chihuahua

Medium Waves: Call: XE––. °=Shortwave.
[1]=also FM. [2]=relay st. [3]=time signal st. D=daytime operation only (12.30–02.00 approx.). Stations printed in fat types are in Mexico City.

Call	kc kW	Call	kc kW	Call	kc kW
11) WA	540[2]150	32) DZ	580 1/0.45	43) BX	610[1]5/0.5
11) WA	540[3]0.5	33) FI	580 5/0.25	44) CV	610 1/0.25
23) KL	550 1/0.25	34) HP	580 1/0.15	45) GS	610 1/0.5
24) QW	550 5d	35) MU	580[1]5/0.25	46) JA	610 1/0.5
25) AR	570 1/0.1	36) UE	580 1/0.1	47) KZ	610 1/0.5
26) LQ	570 1	37) E	590 1/0.15	48) UF	610 5/1
27) NZ	570 1/0.25	38) FD	590 5/0.25	49) BU	620 5/0.25
28) OA	570 5/0.25	39) HQ	590 1/0.5	50) **NK**	**620 10/5**
29) TJ	570 1/0.1	40) **PH**	**590 5**	51) OO	620 1/0.25
30) VX	570 1/0.25	41) BB	600 5/1	52) FB	630 5/1d
31) AV	580[1]5/1	42) DN	600[1]1	53) FU	630 2/0.75
2) JB	°630[3]0.5	112) TX	1010 1/0.25	169) SA	1360 1/0.5
54) TK	630 1/0.25	113) VK	1010 10/1d	170) A	1370 1
55) TS	630 1/0.5	114) WS	1010 5/0.25	171) HF	1370 5
56) ZM	650 5	19) QR	1030[1]10/1	172) MR	1370[1]1/0.5
57) Z	660 2	115) D	1050 10	173) XL	1370 10/0.1
7) RPM	660[3]10/5	116) G	1050 100	40) CO	1380 5
58) FJ	680 1d	12) DP	°1060 50d	174) GW	1380 1
59) KQ	680 5/0.5	117) GY	1080 1/0.5	175) RK	1380 1/0.5
60) LG	680 10d	118) OD	1090[1]1d	176) M	1390 1/0.5
17) N	°690[1]20	119) RB	1090 50d	177) P	1390 1/0.5
61) TRA	690 50d	120) WL	1090 2.5D	178) OR	1390 1
62) DV	700 1d	10)RCN	°**1110[1]50d**	179) TL	1390 5/1
63) BL	710[1]5/1d	121) TR	1120 1D	180) I	1400 1/0.25
64) MP	710 1/0.5	89) AD	1150[1]1/0.1	181) JL	1400 1/0.25
65) ON	710 1	122) GE	1150[1]1D	182) TO	1400[1]1/0.25
66) RL	710 1/0.25	19) JP	**1150[1]10d**	183) XB	1400 0.5/0.25
7) X	°730[21]100/50	123) JS	1150 1/0.5	184) AS	1410 1/0.25
67) ZZ	760 5D	124) XZ	1150 1/0.2	3) **BS**	**1410[1]5/1**
11) WB	°760[2]50	125) GR	1160 1D	185) CF	1410 1/0.5
68) BI	790 1/0.25	126) RT	1170 5D	186) SP	1410 1/0.25
69) FE	790 1/0.5	127) FR	**1180 1/0.25**	187) XJ	1410 1/0.5
70) GZ	790 1/0.25	11) WK	°1190[2]50/10	188) F	1420[1]5/0.5
71) NT	790 5/0.75	16) B	°**1220 100**	52) H	1420 1
19) **RC**	**790[1]5/1**	128) S	1240 1/0.25	189) EW	1420 1d
72) SU	790[1]1D	129) BN	1240 1/0.25	190) II	1420 5/0.15
73) VA	790 5/0.2	130) BQ	1240 1/0.25	191) WE	1420 5/0.17
74) AN	800 1D	9) MQ	°1240 1/0.25	192) XX	1420 2
75) LO	800 150	131) RZ	1240 1/0.25	193) CZ	1430 1
76) FW	81050/30d	132) DK	1250 1	194) LL	1430 1/0.25
77) UX	810 5D	133) DL	1250[1]1/0.5	195) LY	1430 1D
78) KG	820 1D	134) JX	1250 1/0.1	196) OX	1430[1]5/0.5
79) SB	820 1D	135) PI	1250 1/0.1	197) WD	1430 2/0.15
80) LA	**830[1]10/5d**	136) SJ	1250 1/0.5	19) LZ	°1440 5/1
81) BA	840 1D	13) TF	°1250 0.5	8) CM	°1450 1/0.25
82) TQ	850 10d	137) L	**1260 10/1**	198) JD	1450 1/0.25
62) WI	860 1D	138) R	1260 1/0.25	109)JM	1450 0.75/0.25
83) DU	860 1/0.5	139) MF	1260 1/0.25	199) NA	1450 1/0.25
84) MO	860 5	140) AX	1270[1]5/0.5	200) PP	1450 1/0.25
85) NW	860 1/0.25	9) MH	1270 1/0.5	201) VH	1450[1]1/0.25
15) UN	°**860[1]5**	141) PV	1270 1/0.25	196) HX	1460 1/0.25
11) W	°**900[1]250**	142) ZU	1270 1/0.25	202) JT	1460 1D
86) HO	910[1]1/0.25	143) AG	1280 1	203) LX	1460 10d
4) U	°920 5/0.5	144) AW	1280 5/0.5	6) XQ	°1460 0.25
18) BH	°920[1]5/1	145) BW	1280 1/0.6	204) YC	1460 1
87) BM	920 5/1	146) GJ	1280 1/0.25	205) AU	1470[1]5
88) CQ	920 5/0.1	147) AP	1290 1/0.1	162) CU	1470 0.25
89) MJ	920 1/0.25	14) DA	1290 1	206) DS	1470 1/0.2
90) OK	920[1]1/0.25	148) LE	1300 1/0.15	207) **SM**	**1470 10/5**
16) Q	°940[1]150/50	5) SF	°1300 0.5	208) PR	1480 10/0.5
91) WV	940[1]1/0.1	149) XW	1300 1/0.1	209) NJ	1480 1/0.5
92) GM	950 3.5/2.5d	150) AM	1310[1]1/0.25	210) DR	1490 1/0.25
93) YJ	950 1/0.1	151) BP	1310 5/0.25	211) GT	1490 1/0.25
94) K	960 5/1	152) FH	1310 1D	212) OB	1490 1/0.25
95) CS	960 1/0.1	153) HV	1310[1]1	213) RA	1490 1/0.25
96) GB	960 1/0.5	154) PO	1310 1/0.25	20) **RH**	°**1500 20d**
97) KS	960 2/0.1	155) VI	1310 1/0.5	79) GD	1520 1D
98) HK	960 1/0.25	22) RU	°1310 1/0.25	167) NC	1540 1/0.25
99) J	970 10/5	79) TIA	1310 1/0.25	214) BG	1550 1
100) O	970[1]1	156) **AI**	**1320 1/0.5**	215) JJ	1550 10
101) CJ	970 1/0.25	157) RJ	1320[1]5/0.5	216) NU	1550 5d
16) **DF**	**970[2]5/1**	158) BO	1330 1d	217)RMK	1560 1/0.5
102) OW	970 1/0.25	159) FC	1330 1	218) RX	1560 1/0.25
103) VT	970 5/0.4	160) RP	1330[1]1/0.1	219) RF	1570 250
104) KE	980 1/0.25	161) WQ	1330 1D	220) DM	1580[1]50
105) LC	980 5/0.2	162) CW	1340 1/0.2	221) LI	1580 1/0.25
106) NR	980 5/0.5	163) JK	1340 1/0.25	222) NQ	1580 1/0.5
107) TU	980 5/1	164) LW	1340 1/0.25	223) QL	1580 1/0.1
108) XT	980 1	25) NV	1340[1]1/0.25	196) NH	1590 1/0.2
109) T	990[1]50d	165) OM	1340 1/0.25	21) **MC**	°**1590 10/5**
110) BC	990 1/0.1	14) QK	°**1350[1]1**	224) AE	1600 1
111) CL	990 5	166) TB	1350 5/0.5	225) NY	1600 1D
3) **OY**	°**1000[1]10**	167) Y	1360 1/0.17		
81) HL	1010 10/5	168) KF	1360 1/0.5		

* 106 low power st.'s not mentioned. **FM:** 49 stations.

PRINCIPAL BROADCASTING NETWORKS
A) **RADIO PROGRAMAS DE MEXICO** (with 100 affiliated stations) – **ADDR.:** Bucareli 109, 4° piso, Mexico DF – **L.P.:** Pres.: C. Serna Martinez – **Owned and operated stations:** XEX, Mexico City (with all sw., FM, and Relay stations) XERPM 660 kc, Mexico City; XEDK 1250 kc, Guadalajara, Jal; XEMR 1370 kc & XENL 860 kc, Monterrey, NL.
B) **RADIO CADENA NACIONAL** (with 45 affiliated stations) – **ADDR.:** Vallarta 1, 6° piso, Mexico DF. Te.: 469648 – **Owned and operated station:** XERCN 1110 kc, Mexico City.

The Mexican Government requires all st.'s to carry "La Hora Nacional del Gobierno Mexicano" every Mo 04.00–05.00.

Short Waves:

1) Sria de Educación Pública, Dirección de Asuntos Indigenas, Sección Administrativa, Mexico DF (Tr. at Semachique, Chih).

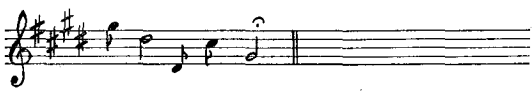
2) Gobierno del Estado de Jalisco, Casa de la Cultura, Guadalajara, Jal. – **D.PRGR.:** Mo 04.00–05.00 on all frq's. – **ANN.:** "Emisoras de la casa de la Cultura" – **FM:** 96.4 Mc.

3) Insurgentes Sur 1870, Mexico DF – **L.P.:** Dir. Gen.: Lic. F. G. Salas F. Mgr.: F. Ibarra L. – **D.PRGR.:** mw. 24 h. **N.:** Every h on the h and 13.30, 14.30 – **ANN.:** "R. Mil. en los mil kc de su radio con música a su gusto" – V. by QSL-card or letter – XEBS/XEBS-FM 1410 kc 89.5 Mc: Ci. Satelite.

4) Av. Independencia 230, Veracruz, Ver. – **L.P.:** Dir. Gen. & Dir. Tec.: F. Pazos S. – **ANN.:** "El Eco de Sotavento desde Veracruz" – V. by letter. Re. in Sp.

5) Vasco de Quiroga y Mariano Elizaga, Morelia, Mich. – **L.P.:** Dir.: J. Martinez R.

6) Apt. Postal 456, San Luis Potosi. Te.: 52-52 – **L.P.:** Dir. Gen.: C. Martinez Bravo. Dir. Tec.: J. Lomeli S. – **D.PRGR.:** m.w.: W 16.00–05.00. Sun 13.00–01.00 – **L.L.:** English: 20.00, 02.30 – **Wrp.:** 21.00, 03.00 – **ANN.:** "R. Universidad Potosina" – **INT.-SIG.:** Marimba –



V. by QSL-card and letter. R. in Sp, E, F – **PUB.:** monthly prgr.-bulletin.

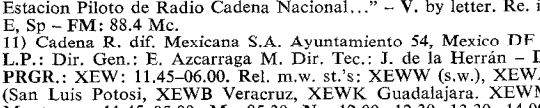
7) Dr. Rio de la Loza 196, Mexico, DF – **L.P.:** Mgr.: M. Balli. Dir. Tec.: J. de la Herrán – **D.PRGR.:** XEX (m.w.) 12.20–06.00 – **N.:** 12.25, 14.00, 21.00, 00.30, 00.45, 04.15, 05.00, 05.55 – XERPM 24 h – **ANN.:** "Desde México, XEX en el 730 de su radio, canal internacional y sus estaciones en León, Veracruz, Monterrey, Saltillo, Torreon, Guadalajara y San Luis Potosi". On XERPM: "Esta es la 660, su estación deportiva y musical" – XEX relay stations (all on 730 kc): Leon 150 kW, Veracruz 150 kW and 5 st.'s of 0.5 kW in Monterrey, Saltillo, Torreon, Guadalajara, San Luis Potosi. **FM:** XEX 101.7, 105.1, 106.1 Mc (Mexico City), 102.8 Mc (Cerro del Samorano), XERPM 103.1 Mc – V. by QSL-card or letter.

8) Apt. Postal 79, Ci. Mante, Tams – **L.P.:** Dir. Gen.: R. Lopez Mendez. *Dir. Tec.: L. Fernandez C.* – **D.PRGR.:** **N.:** *21.00* – **ANN.:** "Escuchan ustedes a XECM onda larga y XECMT onda corta, operando por una vida mejor en el campo de Mexico transmitiendo simultaneamente desde Ciudad Mante, Tamaulipas, Mexico" – V. by letter.

9) Apt. Postal 217, Merida, Yuc – **L.P.:** Dir. Gen.: R. Dominguez L. Dir. Tec.: H. Padron M. – **D.PRGR.:** **N.:** Every h on the h – V. by letter. Re. in Sp – XEMH: **R. Merida,** Ca. 58 No. 493, Merida Yuc.

10) Apt. Postal 7892, Mexico 4, DF – **L.P.:** Dir. Gen.: R. Cutberto Navarro. Mgr.: E. Nassar Jr. Dir. Tec.: E. Diaz G. – **D.PRGR.:** Mw. 24 h. **N.:** every 5 min. before the h – **ANN.:** "Aqui Mexico... XERCN, Estacion Piloto de Radio Cadena Nacional..." – V. by letter. Re. in E, Sp – **FM:** 88.4 Mc.

11) Cadena R. dif. Mexicana S.A. Ayuntamiento 54, Mexico DF – **L.P.:** Dir. Gen.: E. Azcarraga M. Dir. Tec.: J. de la Herrán – **D. PRGR.:** XEW: 11.45–06.00. Rel. m.w. st.'s: XEWW (s.w.), XEWA (San Luis Potosi, XEWB Veracruz, XEWK Guadalajara. XEWM Monterrey: 11.45–05.00, Mo 05.30. **N.:** 12.00, 12.30, 13.30, 14.00, 14.35, 18.35, 20.30, 21.00, 00.30, 01.00, 01.40, 04.45, 04.55, 05.05, *05.25, 05.30. Comm.: 14.45, 21.25, 05.20. Sport* **N.:** 13.25, 14.10, 01.48, 05.35 – **ANN.:** "XEW y XEWW La Voz de la America Latina desde Mexico"



– **FM:** 96.9 Mc, Relay st. XEZA-FM 92.2 Mc (Zamorano, Mex.).

12) Ca. de Bucareli, Mexico DF (inactive on both sw. and mw.).

13) Apt. Postal 74, Veracruz, Ver – **L.P.:** Dir.: I. Diaz de Licona – **ANN.:** "La Voz de Veracruz" – V. by QSL-card.

14) Dolores 10, Primer Piso, Mexico DF – **L.P.:** Dir. Gen.: G. Morales B. Dir. Tec.: F. Gomez B. – **D.PRGR.:** mw. 24 h – **ANN.:** "XEQK y XETT, la unica hora exacta del Observatorio Nacional de Tacubaya" – V. by QSL-card or letter. Re. in Sp, E, G, F.

15) Oficinas Técnicas, Ci. Universitaria, Mexico 20, DF. Te.: 281157 – **L.P.:** Dir. Gen.: R. Lopez M. Dir. Tec.: O. Velazquez G. – **D.PRGR.:** "Panorama Universal de la Cultura": W 05.00 – **ANN.:** "Esta es R. Universidad Nacional de México transmitiendo simultaneamente en sus frecuencias de 860 kc de onda larga, 9600 kc de onda corta, Banda Internacional de 31.25 m, y 96.1 Mc de FM, desde sus estudios en la Ciudad Universitaria de la capital mexicana" – V. by letter.

16) Dr. Rio de la Loza 182, 2° piso, Mexico DF. Te.: 18-52-00 – **D.PRGR.:** XEB (mw): 24 h. XEQ/XEDF (mw): 12.00–06.00 – **N.:** Every h on the h on XEQ special music and news prgr. at 05.00–06.00 – **ANN.:** On XEB: "En el 1220 de su radio, esta es XEB" or "Desde Mexico, XEB en el 1220 de su radio, canal libre internacional". On XEQ: "XEQ desde Mexico" – V. by QSL-card or letter.

17) Zacatecas 219, Condom. Yucatan, Mexico DF – **D.PRGR.:** N.: 03.00 – **FM:** 99.7 Mc.

18) P.O. Box 68, Hermosillo, Son – **L.P.:** Dir.: J. R. Agraz N – **D.PRGR.:** **N.:** Every h on the h – **ANN.:** XEBH, XEBR El Heraldo de Sonora desde Hermosillo" – V. by letter – **FM:** 90.2 Mc.

19) Articulo 123 No. 90, Mexico DF – **XERC:** R. Popular de Mexico. **XEQR:** Corporacion Mexicana de Radio. **XEJP:** R. America – **D.PRGR.:** 12.30–08.30 – **N.:** every h on the h – **FM:** 88.8 Mc (XEJP), 97.7 Mc (XERC), 107.3 Mc (XEQR).

20) A.R.S.E. S.A., Quemada 40, Col. Narvarte, Mexico DF. D. **PRGR.:** N.: 13.30, 20.45, 00.15, 04.00 – 21) Independencia 59, esq. con Luis Moya, Mexico DF – 22) Domicilio Conocido, Chihuahua

Medium Waves:

23) **R. XEKL,** Zamora, 12 Jalapa, Ver.

24) **R. Mexicana de Mérida,** Ca. 64, No. 526, Mérida, Yuc.

25) **R. Fiesta (XEAR)& R. Alegria (XENV),** Ave. Madero Ote. 1114 20° piso, Monterrey, NL – **D.PRGR.:** 12.00–08.00. **N.:** every half h – XENV-FM: 90 Mc – 26) **R. dif. XELQ,** Morelos Nte 68, Morelia, Mich – 27) **R. Impulsora de Culiacan,** Blvd. 50 Oriente, Culiacan, Sin – **FM:** XEBI 88.2 Mc – 28) **R. Oaxaca,** Carlos Bustamente 17, Oaxaca.

29) **R. XETJ,** Av. Lerdo de Tejada 1564, Torreón, Coah.

30) **R. XEVX,** Morelos 58, Comalcalco, Tab.

31) **R. Guadalajara,** Av. Vallarta 1458, Guadalajara, Jal. Te.: 4-73-31. **L.P.:** Dir. Gen.: M. López Diaz. Dir. Tec.: G. Jimenez M. **D.PRGR.:** *12.00–08.00* ***Spanish, English.*** **N.:** *14.00–04.00 every h on the h and 03.30.* **ANN.:** "XEAV R. Guadalajara canal 58". V. by QSL-card or letter. **FM:** 100.3 Mc 1 kW – 32) **R. XEDZ,** Ca. 9 No. 58, Cordoba, Ver.

33) **Pregonero del Edo de Chihuahua,** Libertad 1302, Ghihuahua.

34) **R. XEPH,** Ca. 14 No. 150, entre Hidalgo y Juarez, Ci. Victoria, Tams – 35) **R. dif. XEMU,** Carranza 3, Piedras Negra, Coah. **FM:** 88.4 Mc – 36) **La Voz de Chiapas,** Ca. Central 6, Tuxtla Gutiérez, Chis.

37) **R. XEE,** 20 de Noviembre 122 Pte. Durango, Dgo.

38) **R. XEFD,** Carretera a Matamoros, Rio Bravo, Tams.

39) **R. Hermosillo,** Rosales y Vildesolda, Hermosillo, Son.

40) **XEPH: R. 590 and XECO: R. Eco:** Insurg. Sur 1870, Mexico 19, DF. **L.P.:** Dir. Gen.: E. Guillermo Salas. **D.PRGR.:** **R. Eco:** 13.00–06.00. **English:** 13.30–14.30 (W), 01.00–03.15 (D exc. Sun, Mo). **French:** 04.15–04.45 (Tues, Thurs, Sat). **German:** *00.15–01.00* (Tues-Sat). **Italian:** 03.15–04.15 (Tues-Sat). **R 590:** 13.00–07.00. **ANN.:** "R 590 y R Eco" (belongs to 3) – 41) **R. Acapuco,** Morelos 3, Acapulco, Gro.

42) **Dif. del Norte,** Av. Juárez 1465 Pte., Torreón, Coah – **FM:** 88.1 Mc

43) **R. Coahuila,** Av. Carranza 168, Sabinas, Coah – **FM:** 88.1 Mc.

44) **R. XEXV,** Francisco I, Madero 35, Ci. Valles, S.L.P.

45) **R. Guasave,** Zaragosa 45, Altoa, Guasave, Sin.

46) **R. ZEJA,** Pasaje Tanos, Ca. Enriquez, Jalapa, Ver.

47) **La Voz del Istmo de Tehuantepec,** Domicilio Conocido, Tehuantepec, Oax – 48) **R. XEUF,** Portal Carrillo 8, Edif. Silva, Uruapan, Mich.

49) **R. ZEBÚ,** Ojinaga 118, Chihuahua, Chih.

50) **R. 620,** Balderas 32, 4° Piso, Mexico DF – **L.P.:** Dir. Gen.: V. Blanco R. Dir. Tec.: J. Durand – **D.PRGR.:** 13.00–06.00 – **ANN.:** "Radio Sies Veinte, Emisora de la Juventud".

51) **R. XEOO,** Lerdo 197, Pte., Tepic, Nayarit.

52) **Emis. Incorporadas de Monterrey,** 5 de Mayo Ote. 112, Monterrey – **D.PRGR.:** 12.00–16.00. **N.:** every half h (on both st.'s). Complete N. (15 min.) on XEFB: 12.00, 13.00, 14.00, 20.00, 04.00, 05.00.

53) **R. XEFU,** Hidalgo 36, Cosamaloapan, Ver.

54) **R. Emis. de Occidente,** Av. Angel Flores 42, Mazatlán, Sin.

55) **R. XETS,** Primera y Av. Norte 9, Tapachula, Chiapas.

56) **La Voz del Comercio de Zamora,** 5 de Mayo 30, Zamora, Mich.

57) **La Voz de la Peninsula,** Ca. 56 No. 508, Merida, Yuc.

58) **R. XEFJ,** Benito Juárez 86, Teziutlan, Pue.

59) **R. Soconusco,** Parque Infantil, Tapachula, Chiapas.

60) **R. Impulsora del Centro,** Pasaje de las Tullerias 1, León.

61) **R. del Pacifico,** Esq. Lerma y Bravo, Tijuana.

62) **R. XEDV (Zappan)& XEWI (Chalapa),** Ave. Juarez 330, Desp. 207, Guadalajara, Jal – **D.PRGR.:** N. every half h.

63) **R. XEBL,** Boulevard 50, Ote., Culiacán, Sin. **FM:** 88.2 Mc belongs to 27) – 64) **R. XEMP,** Quemada 40, Mexico, DF.

65) **R. XEON,** Jardin Sto. Domingo, Tuxtla Gutiérrez, Chis.

66) **R. XERL,** 27 de Septiembre 290, Colina – 67) **R. XEZZ,** Av. Juárez 595-2, Guadalajara – 68) **R. XEBI,** Madero 92, Aguascalientos, Ags – 69) **R. XEFE,** Aldana 2611, Nievo Laredo, Tams – 70) **R. ZEGZ,** Apt. Postal 6, Ci. Lerdo, Dgo – 71) **R. XENT,** Apt. 105, Col. del Sol, La Paz, BC.

72) **R. XESU,** Av. Zacatocas y Morelia, Mexicali, BC – **FM:** 88.1 Mc.

73) **R. Tabasco,** Av. *Pino Suárez* 24-A, *Villahermosa,* Tab – 74) **R. Ocotlán,** Niños Héroes 245, Ocotlán, Jal – 75) **R. de P. Negras,** Ca. 21 y Letra "K". Ci. Juárez, Chih.

76) **R. XEFW,** Madero 416, Ote, Tampico, Tams – **D.PRGR.:** 12.00–04.00 – 77) **R. XEUX,** Hidalgo y Progreso, Tuxpan, Nayarit.

78) **R. Fortin,** Apt. Postal 4, Fortin de las Flores, Ver.
79) **R. XESB,** Hidalgo y Angela Peralta, Santa Bárbara, Chih. **XEGD:** Hidalgo del Parral.
80) **R. Metropolitana,** Paseo de la Reforma 139, Mexico DF – **D.PRGR.:** N.: 14.30, 20.30, 00.45, 06.00. **FM:** 98.5 Mc.
81) **R. Internacional,** Pino Suárez 183, Guadalajara – **D.PRGR.:** 12.00–08.00. N.: every h on the h. **XEAD: La Emisora de la Buena Musica, XETIA=R. Tia** – XEAD-FM 88.2 Mc.
82) **R. XETQ,** Sur 3 No. 2 Orizaba, Ver – 83) **R. XEDU,** 20 de Noviembre 105, Pte. Durango, Dgo – 84) **R. XEMO,** Durango 10, Tijuana, BC.
85) **R. XENW,** Matamoros 14, Culiacán, Sin.
86) **R. XEHO,** Guerrero 426, Ci. Obregon, Son – **FM:** 88.3 Mc.
87) **R. XEBM,** Jardin Hidalgo 15, San Luis Potosi, **SIP.**
88) **R. Culiacán,** Escobedo 226, Pte., Culiacán, Si.
89) **R. XEMJ,** Boulevard V. Carrenza 6, Piedras Negras, Coah.
90) **R. XEOK,** Xicotencatl 1051, Monterrey, NL – **FM:** 88.7 Mc.
91) **R. XEWV,** Av. Madero 410, Mexicali BC – **FM:** 89.6 Mc.
92) **R. XEGM,** Av. "G" 185, Tijuana, BC.
93) **Televisión Norteña,** Apt. Postal 16, Nueva Rosita, Coah.
94) **El Pregonero del Bravo,** Dr. Mier 2223 Altos, Nuevo Laredo, Tam – **D.PRGR.:** W 12.00–06.00 Sun 14.00–20.00 – **V.** by letter.
95) **R. XECS,** Zaragoza y Allende, Manzanillo, Col.
96) **R. XEGB,** 3a Hidalgo 37, Coatzacoalcos, Ver.
97) **Vocero del Norte,** Aldama y Zaragoza Lado Nte., Saltillo.
98) **R. XEHK,** Pedro Moreno 315, Desp. 203–205, Guadalajara, Jal.
99) **Mexican Broadc. Co.,** Constitución 402, Ci. Juárez, Chih.
100) **R. El Callo,** Ca. 9a 95 entre Bravo y Buatamente, Matamoros.
101) **R. XECJ,** Apt. Postal 106, Apatzingan, Mich. **Te.:** 28. **L.P.:** Mgr.: M. Flores E – **D.PRGR.:** 11.55–04.00. N.: every h on the h – **ANN.:** "XECJ Radio Apatzingan" – **V.** by letter – **F.PL.:** power to 5/0.25 kW.
102) **R. XEOW,** 5 de Mayo 64, Mazatlán, Sin – 103) **R. XEVT,** Zaragoza Sur 3, Villahermosa, Tab – 104) **R. Navojoa,** Morelos y Toledo, Navojoa, Son.
105) **R. XELC,** Ocampo 3, La Piedad, Mich – 106) **R. XENR,** Juárez 7 Altos, Nueva Rosita, Coah – 107) **Impulsora Moderna del Radio,** Ca. Muelle y Salvador Diaz M., Tampico, Tams – 108) **Radiofonica de Nayarit,** Veracruz y Emiliano Zapata Pte. 164, Tepic, Nay.
109) **El Pregonero del Norte,** 15 de Mayo Ote. 650, Monterrey, NL – **D. PRGR.:** XET: N.: every half h and 15 min. bulletin: Tues-Sun 04.00. **Comm.:** D 13.55, 18.30, 02.30, Wed 04.15. **Sport N.:** D 00.30– **XEJM (R. Regiomontana):** 13.00–05.00 – **FM:** XET 94 Mc 13.00–05.00.
110) **R. Ciudad Guzmán,** Colon 52, Ci. Guzmán, Jal.
111) **R. XECL,** Av. Madero 621, Mexicali, BC.
112) **R. Casas Grande,** Av. Porfirio Diaz y Minerva 400, Nuevo Casas Grandes, Chih. – 113) **Emisoras de Torreón,** Av. Juarez 1465, Torreón, Coah. – 114) **R. XEWS,** Rubi 57, Nte., Depto. 1, Guliacán, Sin.
115) **R. XED,** Av. Zacatecas, Entre C. 7a y 8a, Mexicali, BC.
116) **La Voz de Norteamérica,** Hidalgo 426, Ote., Monterrey, NL – **D. PRGR.:** 24 h **English:** 00.30–12.00.
117) **R. XEGY,** Av. Libertad 113-4, Tehuacán, Pue.
118) **R. XEOD,** Rayón e Indep. Edif. Literia Nacional, Desp. 401, Veracruz, Ver – **FM:** 88.3 Mc – 119) **Interamericana de Radio,** Edif. Calif., despacho 2, Tijuana, BC – 120) **R. Laredo, Matamoros** y Pino Suárez, Nuevo Laredo, Tams.
121) **R. dif. XETR,** Carretera México-Laredo 29 Sur, Ci. Valles, SLP.
122) **R. Comercial de Baja California,** Pesajo Regio Depto. 4 y 5, Edif. Padilla, Mexicali, BC – **FM:** 88.6 Mc.
123) **R. XEJS,** Colegio 14, Hidalgo del Parral, Chih.
124) **La Voz de Zacatecas,** Miguel Auza 10, Zacatecas Zac – **L.P.:** Dir. Gen.: E. Llamas F – **D. PRGR.:** 12.00–05.00 (Mo 04.00).
125) **R. Coatepec,** 16 de Septiembre 12, Coatepec, Ver.
126) **R. Televisora Siglo XX,** Av. Juárez 199 Sur, Reynosa, Tams.
127) **R. XEFR,** Isabel la Católica 33-117, Mexico DF.
128) **R. Televisora de Tampico,** Diaz Miron 310 altos, Tampico, Tams.
129) **R. Delicias,** Av. 4a y Ca. 4a Norte, Ci Delicias, Chih. – 130) **R. XEBQ,** Casa "I", No. 142, Empalme, Son. – 131) **R. Televisora del Bajio,** Edif. "Seara", León, Gto.
132) **R. Televisora de Jalisco,** 16 de Septiembre 456, Guadalajara, Jal. – **D. PRGR.:** 24 h **N.:** 13.55, 20.55, 01.55. **Sport N.:** D 14.45.
133) **R. XEDL,** Angel Flores 26, Ptes., Hermosillo, Son – **FM.:** 88.4 Mc – 134) **R. Emis. Querétana,** Madero 18, Querétana, Oro.
135) **R. XEPI,** Carretera a Chilapa y Las Frondas, Tixtla, Gro – **L.P.:** Dir. Gen.: A. Peyron G – **D. PRGR.:** 12.00–04.00 – **ANN.:** "XEPI La Voz de Guerrero desde Tixtla".
136) **R. Saltillo,** Manuel Acuña Sur 102 "C", Saltillo, Coah.
137) **Capital Broadc. System,** Av. Reforma 400 Desp. 701, Mexico DF – **D. PRGR.:** 24 h **English:** 13.00, 02.00, 04.00.
138) **R. Linares,** Carretera Nacional Mexico-Laredo, Linares.
139) **R. XEMF,** Zaragoza 158, Monclova, Coah. – 140) **R. XEAX,** Av. Manuel Garcia Vigil 5, Caxaxa, Cax. – **FM:** 88.4 Mc.
141) **R. XEPV,** Mina 1, Papantla de Olarte, Ver – 142) **Promotoras de Radio,** Madere 15, Zacapu, Mich – 143) **La Voz de Córdoba,** Av. Uno 590, Córdoba, Ver.
144) **R. XEAW,** Parioutin 316, Sur, Col. Roma, Monterrey, NL – **D. PRGR.:** N.: Every half h and 15 min. bulletin at 02.00 – **Sport N.:** Mo-Fri 19.15. **Comm.:** Sat 19.00, Sun 00.15, 19.00, 21.00.
145) **R. Emis. del Norte,** Av. V Carranza 514, Chihuahua, Chih.
146) **R. XEGJ,** Av. Juarez 171, Desp. 504, Guadalajara, Jal.
147) **R. XEAP,** Sinaloa 206, Ci. Obregón, Son – 148) **R. XELE,** Muello 304, Sur, Tampico, Tams – 149) **R. XEXW,** Obregón 51, Nogales.
150) **R. XEAM,** Carretera Matamoros, Ci. Victoria, Matamoros, Tams. **FM:** 98.1 Mc – 151) **La Voz de la Laguna,** Cepeda Sur 409, Torreón, Coah.
152) **R. XEFH,** Ca. 5a y Av. Panamericana, Agua Prieta, Son.
153) **R. XEHV,** Aquiles Serdán 126, Veracruz, Ver – **FM:** 98.9 Mc.
154) **R. Ondas Populares,** Venustiano Carranza 4-A, San Luis Potosi.
155) **R. XEVI,** Juárez 26, Ote., San Juan del Rio, Oro.
156) **R. Aeropuerto,** Frey Servando Teresa de Mier 120, Mexico DF.
157) **R. Mazatlán,** Av. Juárez 117, Desp. 505, Mazatlán, Sin. **FM:** 88.1 Mc – 158) **La Voz del Centro,** Berriozabal 8, Irapuato, Gto.
159) **R. XEFC,** Ca. 64 No. 498, Merida, Yuc – 160) **R. XERP,** Alvare Obregón y 2 de Enero, Ci. Madero, Tams – **FM:** 88.5 Mc – 161) **R. XEWO,** Hidalgo 229, Nte. Monclova, Coah.
162) **R. XECW/XECU,** R. O. Castro y Allende 302, Los Mochis, Sin.
163) **La Voz de Delicias,** Av. Agricultura y Ca. 4a Nte. 401, Ci. Delicias, Chih – 164) **R. XELW,** López Cotilla 769, Guadalajara, Jal.
165) **R. XEOM,** Zaragoza y Corregidora, Coatzacoalos, Ver.
166) **R. Laguna,** Apt. 225, Torreón, Coah – **D. PRGR.:** 12.55–05.00. **N.:** 13.45, 20.15, 01.45, 04.30 and also every half h – **V.** by letter.
167) **R. XEY,** Tres Guerras 44, Celaya, Gto – 168) **R. XEKF,** Altamirano 21, Iguala, Gro – 169) **La Voz de Sinaloa,** Av. Alvaro Obregón 39, Sur, Culiacán, Sin.
170) **R. XEA,** ca. 12 No. 110, Campeche, Gam.
171) **R. Com. Sonorense,** Edif. Bco. Agric. Ganadero, Nogales, Son – V. by QSL-card.
172) **Propulsora del Radio,** Av. Madero y Venustiano Carranza, Monterrey, NL – **D. PRGR.:** N.: 13.50, 18.40, 01.50 – **FM:** 88.3 Mc.
173) **R. XEXL,** Lote 14, Colonia Morelos, Patzcuaro, Mich.
174) **R. XEGW,** 13 Hidalgo y Juárez, Ci. Victoria, Tams.
175) **R. XERK,** Veracruz 609, Tepic, Nay.
176) **Mexican Broadc. Co.,** Ojinaga 4106, Chihuahua, Chih.
177) **R. XEP,** 16 de Septiembre 100 Ote., Ci. Juárez, Chih.
178) **R. El Callo,** Pedro José Mendéz 154 Ote., Reynosa, Tams.
179) **R. XETL,** Av. Independencia y P. Correo Viejo, Tuxpan, Ver.
180) **R. XEI,** Portal Hidalgo 213, Morelia, Mich – 181) **R. XEJL,** Independencia 27, Guamúchil, Sin – 182) **R. Tiempo,** Emilio Carranza 320, Ote., Tampico, Tams.
183) **Universidad Veracruzana,** Domicilio Concocido, Jalapa, Ver.
184) **R. XEAS,** Mina 5037, Nuevo Laredo, Tams.
185) **La Voz del Valle del Euerte,** Av. Obregón 204, Los Mochis, Sin.
186) **R. Impulsora de Occidente,** Ca. de Pedro Loza 31, Guadalajara.
187) **R. Televisora Tabasquena,** Av. Juárez 15, Villahermosa, Ta.
188) **R. XEF,** 20 de Noviembre 504, Ci. Juárez, Chih – **FM:** 89.6 Mc.
189) **R. XEEW,** Edif. Cardenas Galván, Abasolo y Sexta, Matamoros, Tamaulipas – 190) **R. XEII,** Hotel Victoria, Chihuahua, Chih.
191) **R. Irapuato,** Apt. Postal 118, Irapuato, Gto. **D. PRGR.:** 12.00–06.30 **N.:** 14.15, 20.45, 03.30 – 192) **R. XEXX,** Revolución y Octava, Tijuana, BC.
193) **R. Mexicanas,** Jardin Hidalgo 16, altos, San Luis Potosi.
194) **R. XELL,** Av. Independencia 231, local 4, Veracruz, Ver.
195) **R. XELY,** Morelos Nte. 68, Morelia, Mich.
196) **R. XEOX,** Veracruz 63, Sur, Ci. Obregón, Son – **FM:** 88.1 Mc – **XEHX:** R. Obregón – **XENH** (tr. at Escuinapa, Sin).
197) **El Heraldo Fronterizo,** Alvaro Obregón 569, Ci. Miguel, Aleman.
198) **R. XEJD,** Hotel Poza Rica, Poza Rica, Ver – 199) **R. Emis. Querétana,** Madero 58, Querétano, Qro – 200) **La Voz de Orizaba,** Poniente 7, No. 57 altos, Orizaba, Ver.
201) **R. XEVH,** Alts Edif. Carcia Cárdenas, Ca. Hidalgo entre 10 y 20, Villa Hermoso, Tamaulipas – **FM:** 88.1 Mc.
202) **R. XEJT,** Diaz Mirón 106, Ote. Tampico, Tams.
203) **R. XELX,** Av. Revolucion 194, Zitácuaro, Mich.
204) **R. XEYC,** Av. 16 de Septiembre y Progreso, Ci. Juárez, Chih.
205) **R. XEAU,** Av. Carranza 1638, Tijuana, BC – **FM:** 89.3 Mc.
206) **R. Colima,** Apt. 147, Colima – **D. PRGR.:** 13.00–01.00.
207) **El Heraldo del Chocolate Abuelita,** Rebsamen 241, Col. Narvarte, Mexico DF – 208) **R.fónica de Poza Rica,** Ca. 6Nte, 2y Av. Central Ote., Poza Rica.
209) **R. XENJ,** Ave. Juárez y Allende, Edif. Maracán, Monterrey, NL.
210) **R. XEDR,** Av. Serdán 283, Altos, Guaymas, Son – 211) **R. Zamora,** 5 de Mayo 285, Sur, Zamora, Mich – 212) **R. Torreón,** Acuña Nte. con Narciso Mendoza Torreón, Coah.
213) **R.d. Nacional Radioemisora,** Ca. Libertad 1302, Chihuahua.
214) **R. XEBG,** Av. "C" 225 Altos, Tijuana, BC.
215) **R. 155,** Carrillo Puerto 6, Jalapa, Ver – **D. PRGR.:** 12.00–06.00.
216) **R. XENU,** Camargo 518, Nuevo Laredo, Tams – 217) **R. XERMK,** Ci. Satelite, Est. de Mexico – 218) **R. XERX,** Morelos 7, Salamanca, Gto.
219) **Cia. R. dif. de Coahuila,** Prolongación Guerrero, Camino a San Carlos, Ci. Acuña, Coah.
220) **R. Pacifico, Matamoros,** Edif. Combate D-1, Hermosillo, Son

221) **La Voz del Sur,** Km 213 Carretera Mexico-Acapulco, Chilpancingo, Gro – 222) **R. XENQ,** Plaza de la Constitución, Tulancingo, Hgo – 223) **R. XEQL,** Apt. Postal 40, Zamora, Mich – 224) **R. XEAE,** Guerrero y Ocampo 450, Ci. Acuña, Coah – 225) **R. XENY,** Campilco y Fenichio, Nogales, Son.

NETHERLANDS ANTILLES

L.T.: GMT÷4½ h – **Pr. L.:** Papiamento.

CURAÇAO

RADIO CUROM (Foundation: "Curaçaosche Radio Vereeiniging").
FI.: Membership fees and adv. – **ADDR.:** P.O. Box 31, Willemstad, *Curaçao.* **Cable:** *Curaver.* **Te.:** *12555.*
L.P.: Pres.: C. G. Grootens. Mgr.: A. Cloo Dir. Tec.: G. Reiche.
STATION (System: RCA): PJC-2 865 kc 346.8 m 10 kW.
HOME SCE.: 11.00–03.30. Sun: 13.30–17.30, 21.30–03.30.
N. in Dutch: 11.30, 12.30, 15.00, 17.00, 20.30, 23.30, 02.30. **Papiamento:** 16.30, 22.30.
Spanish: Mo, Fri 17.30–19.30, Wed 01.30–02.30 – **L.L.: (French):** *Mo, Fri 01.30.*
ANN.: E. "This is R. Curom in Willemstad, Curaçao, Neth. Antilles; D. "Hier is de Curom te Willemstad op Curaçao". Papiamento: "Aki ta Curom na Willemstad, Corsow".
INT-SIG.: Part of the Curom-march, played by a big band – V. by letter. Rp.

RADIO HOYER (Cultural, Comm.)
FI.: *R. Hoyer 1 and 3 by adv. R. Hoyer 2 on cultural basis* – **ADDR.:** Julianaplain 21, Willemstad. **Cable:** Radioyer. **Te.:** 11673 – **L.P.:** Dir. Gen.: H. E. Hoyer. Dir. Tec.: E. G. Gilmoore.
STATIONS:
PJC7 1010 kc 297 m 1 kW – PJC-2 1500 kc 200 m 1 kW.
HOME SCE.: 09.30–04.30 Spanish, Papiamento on 1010 kc, Dutch, English on 1500 kc.
N.: ***Spanish:*** *On the ½ h and 10.45, 11.45, 16.50,* 22.00, *01.30.* **Papiamento:** On the h and 13.30, 16.30, 22.30, 02.30. **Dutch:** On the h and 11.15, 13.30, 17.30, 21.45, 23.00. **English:** On the ½ h and 12.00, 15.30, 17.15, 01.30.
ANN.: E.: "This is station PJC7 R. Hoyer transmitting on..." – **INT.-SIG.:** First 3 bars of Curaçao's anthem – V by QSL-card.

RADIO CARIBE (Comm.):
FI.: *By adv. only* – **ADDR.:** *Nieuwestraat 22B, Willemstad.* **Cable:** R. Caribe.Te : 12801.
L.P.: Dir. Gen.: C. R. Heillegger. Dir. Tec.: For. Rel. G. A. T. Heillegger.
STATION: PJL3 1230 kc 243.9 m 0.25 kW.
HOME SCE.: W 10.30–04.30, Sun 12.30–04.30.
W Papiamento & Spanish 10.30–01.00, **Dutch & English** 01.00–04.30. **Sun English** *12.30–14.30,* **Dutch** *14.30–16.30,* **Papiamento & Spanish** 16.30–22.30, **Dutch & English** 22.30–04.30.
N.: Spanish W 13.30, 17.30, 22.30, 00.45. Sun 17.30. **Papiamento:** W 16.45, 17.00, 17.15.
ANN.: E.: "This is R. Caribe broadcasting on its assigned frequency of 1230 kc 243.9 m". – V. by letter – **F.PL.:** 1 kW on 540 kc.

ARUBA

RADIO KELKBOOM (Comm.)
ADDR.: P.O. Box 9, Oranjestad. **Cable:** Kelkboom. **Te.:** 1899 – **L.P.:** Mgr.: C. A. Kelkboom.
STATION: PJA5 1435 kc 209 m 1 kW.
HOME SCE.: W 12.30–02.30. Sun 14.30–02.30.
Dutch: D 16.30–17.15, 23.45–00.30. Sun 20.30–21.30. Mo 22.00–23.30. Sun, Thurs 01.30–02.30 – **N.:** 17.00, 22.15 – **English:** W 15.30–15.45, *17.15–17.35* – **N.:** *17.25* – **Spanish:** *W 14.30–15.00, 00.45–01.00. Sun* 16.00–16.30 – **Papiamento:** W 15.45, 16.00, Tues 01.30–02.00, Sun 16.30–17.00.
ANN.: Dutch: "Hier PJA-5 R. Kelkboom te Orangestad Aruba'. E.: "This is PJA-5 R. Kelkboom at Orangestad, Aruba". Papiamento: "Ta transmite R. Kelkboom PJA-5 na Orange, Aruba" – V. by QSL card. Rp.

RADIO VICTORIA (Sponsored and owned by the Evangelical Alliance Mission. – TEAM)
FI.: By comm. adv. and free will offerings – **ADDR.:** Oranjestad. **Cable:** Team. **Te.:** 7090 – **L.P.:** St. Mgr.: Rev. P. J. Pietsch. Dir. Tec.: C. Jobes.
STATION: 905 kc 331 m 10 kW.
HOME SCE.: W 13.30–04.00. Sun 11.30–01.30 – **English:** D 17.00–*19.15, 00.00–03.00.* **N.** *17.00–00.30, 02.30* – **Dutch:** W *23.00, 24.00.* **N.** 23.00 – **Papiamento & Spanish:** 15.30–17.00, 19.15–23.00. **N.** 16.30, 22.30.
ANN.: E. "This is R. Victoria, The Cultural Voice of the Caribbean". Sp. "Transmite R. Victoria, La Voz Cultural del Caribe" – V by letter. Rp. welcomed.

VOICE OF ARUBA (Comm).
ADDR.: Van Leeuwenhoekstraat *12,* Oranjestad – **L.P.:** *Dir.:* A. M. Arends Jr. Dir. Tec.: D. Odor.
STATION: PJA-10 655 kc 457 m 1 kW.
HOME SCE. in Dutch, English, Spanish: 10.30–02.30.
ANN.: "You are tuned to Station PJA-10 – The Voice of Aruba" – **INT.-SIG.:** 4 strokes on a 4 metal bar percussion instrument – V. by QSL-card or letter.

RADIO ANTILLANA (Comm.)
ADDR.: P.O. Box 28, St. Nicolaas – **L.P.:** Mgr.: J. B. Wix. Dir. Tec.: Poeren.
STATION: 775 kc 386 m 1 kW.
HOME SCE. in Papiamento, English, Dutch: W: 10.30–12.30, 16.15–18.00, 21.30–02.30 (Sat 03.30). Sun 22.30–02.30 – V. by letter.

BONAIRE

R.HOYER 3: PJB2 1385 kc 216 m 1 kW: **D:** 10.30–12.30, 16.30–18.30, 22.30–01.30 in Papiamento, Dutch, English, Spanish.

NICARAGUA

L.T.: GMT÷6 h – **Pr.L.:** Spanish.
JEFATURA DEL RADIO NACIONAL, Apt. 209, Managua.
STATIONS: All st.'s comm. exc. 13) (Go.), 1), 22) (Cultural), 18), 20) (Rel.).

Short Waves: Call: YN–.

	Call	kc	m	kW	Name and h of tr.
1)	RC	5810	51.63	0.25	R. Cultural, Managua
2)	—	5920	50.68	1	R. Puerto, Puerto Cabezo
3)	WW	5965	50.28	0.5	R. Sport[2], Granada: 23.00–04.00
4)	DG	5995	50.04	1	R. Colonial, León
5)	LUA	6040	49.67	0.5	R. City, Managua: 12.00–06.00
6)	EQ	6065	49.46	0.45	R. Universal, Managua: 12.00–04.00
7)	EC	6100	49.18	0.4	R. Hernandez Cordoba, Ocotal
8)	WA	6140	48.96	0.5	R. Mundial[1], Managua: 12.00–05.00
9)	UW	6190	48.47	0.25	R. Dario[2], León
10)	JM	6200	48.39	1	R. Norte, Somoto

Medium Waves: Call: YN–. °=Short Waves.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
11)	HP	575	1	8)	W	°930	10[1]	31)	CW	1240	0.5[2]
12)	RD	590	3[2]	21)	LU	965	1	32)	WX	1270	2.5
13)	M	620	1.2	22)	OP	980	0.25	33)	RA	1300	0.37
3)	XW	°650	1[1,2]	23)	HTM	1000	3	34)	XZ	1320	0.2
14)	DS	675	2.5	8)	W3	1025	1[1]	35)	GF	1360	0.5
15)	SC	700	1	24)	LL	1050	0.25[2]	16)	X	1370	1
16)	X	°750	3	25)	TW	1070	0.18	16)	X	1400	1
8)	W2	775	1[1]	26)	RM	°1090	0.25[2]	16)	X	1420	1
17)	R	800	1	27)	Q	1100	0.75	36)	MS	1440	0.15
18)	OL	825	15	28)	WS	1130	1	37)	WN	1450	0.15
19)	MV	850	5	29)	BB	1150	0.4[2]	38)	AG	1475	2
8)	WI	875	1[1]	9)	UW	°1180	0.1[2]	39)	PT	1500	0.5
20)	RC	900	10	30)	C	1200	0.5	30)	AS	1560	0.25

[1] R. Mundial Nicaraguan Radio Network [2] R. Deportes Nicaraguan Sports Network.

Short Waves:
1) Managua – 2) Puerto Cabezo – 3) Granada – **L.P.:** Dir.: M. Arana V. – 4) León.
5) Managua – 6) Apt. 338, Managua – 7) Ocotal.
8) 5a Av. N. O. 703, Managua. **Te.:** 3851 – **L.P.:** Dir. Gen.: M. Arana V. Dir. Tec.: F. Arana V. – **FM:** 92 Mc (1 kW), 100.00 Mc (0.1 kW) – **D.PRGR.:** N.: 12.00, 16.30, 19.30, 23.00, 04.15 – **ANN.:** "R. Mundial transmitiendo desde los estudios de la Cadena Nicaraguense de Radiodifusion en Managua, Nicaragua, Centro America".
9) León – 10) Somoto.

Medium Waves:
11) **R. Minerva,** Masaya.
12) **R. Deportes,** Managua – **L.P.:** *Dir.:* F. Arana V.
13) **Radiodifusora Nacional,** Edif. Benard, Managua. **Te.:** 71173 – **L.P.:** Dir. Gen.: S. Cisneros Leiva. Dir. Tec.: B. Guerrera – **D.PRGR.:** 12.00–04.00. **N.:** 12.30, 19.00, 03.15 – **ANN.:** "Paz, Libertad, Progreso, transmite R.difusora Nacional de Nicaragua" – V. by letter. Rp.
14) **Union Radio,** Aptdo. 1148, Managua. **Te.:** 4422 – **L.P.:** Dir.: R. Arroliga S. Dir. Tec.: O. Meza Lira – **D.PRGR.:** 24 h. **N.:** 12.00, *16.30, 18.45,* 22.00 – **ANN.:** "Union Radio, La Onda Musical y Deportiva 675 kc, Managua de la Cadena Inter-Americana W.R.U.L. de New York" – V. by QSL-card and letter. Prgr.schedule free on request.
15) **R. Centauro,** Managua – **L.P.:** Dir.: S. Cardenal A – **FM:** 89.0 Mc
16) **Estacion X,** Apt. 1505, Managua. **Te.:** 5404. **Cable:** Tevenic – **L.P.:** Dir.: R. O. Cano – **D.PRGR.:** 12.00–06.00. N.: 12.30, 19.30, 03.30 – **ANN.:** "En Managua Nicaragua transmite Estacion X la Emisora favorita de la Juventud".
17) **R. Reloj,** Managua – **L.P.:** Dir.: R. Arana Sandigo.
18) **Ondas de Luz,** Apt. 607, Managua. **Te.:** 8251 – **L.P.:** Pres.: F. Dona M. – **D.PRGR.:** 12.00–04.30. **N.:** 14.00, 19.00, 01.00, 04.00. **English:** 03.00–04.30 – **ANN.:** "YNOL Ondas de Luz, con su lema: Orientando su camono con la luz de la verdad" – V. by letter and *QSL-card.*
19) **R. Continental,** Av. Este 1200, Managua – **L.P.:** Dir.: M. Valle Q.
20) **R. Catolica de Nicaragua,** Aptdo. 2183, Managua. **Te.:** 72260 – **L.P.:** Dir. Gen.: F. Narciso de Arenys. Dir. Tec.: F. Gadea Mantilla –

D.PRGR.: 12.00–04.00. **N.**: 13.00, 19.00, 01.15 – **ANN.**: "Por Christo y por su iglesia, transmite: YNRC, R. Católica de Nicaragua".
21) **R. Managua,** Managua.
22) **Emisora Cultural Carazo,** Jinotepe – **L.P.**: Dir.: A. Obregon P.
23) **R. Noticias,** Managua – 24) **R. Masaya,** Masaya – 25) **R. Centro,** Granada.
26) **R. Musun,** Matagalpa – 27) **La Voz de la Victoria,** Managua.
28) **Alma Nica,** Managua – 29) **La Voz de la Segovia,** Esteli
30) **R. Mongalo,** Rivas – 31) **R. Occidental,** Chinandega.
32) **R. Atenas,** León – 33) **La Voz de Chinandega,** Chinandega.
34) **R. Cocibolga,** Granada – 35) **R. Diriamba,** Diriamba.
36) **R. Philips,** León – 37) **R. Granada,** Granada.
38) **R. Cosiguina,** Chinandega – 39) **Tierra Penolera,** Managua.
40) **Ondas del Zolotlan,** Managua.

PANAMA

L.T.: GMT÷5 h – **Pr. L.**: Spanish.

GOVT. DEPT. JURISDICTION: RADIO BROADCASTING IN PANAMA

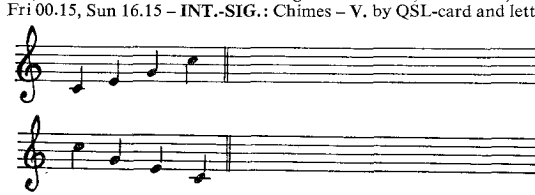
ADDR.: Direccion de Correos y Telecommunicaciones, Ministerio de Gobierno y Justicia, Panamá. **Cable:** Dirgentel.
L.P.: Technical Dir. of Radiocommunications: Eng, F, A. Lamparero.
STATIONS: C=Circuito *=currently inactive.
All st.'s comm. exc. 1) (rel.), 19) (Cultural & rel.), 20) (Mil.).
Short Waves:

	Call	kc	m	kW	Name and h of tr.
1)	HOL21	*5960	50.34	0.6	R. Hogar, Panama
2)	HOM50	5995	50.04	1	C.R.P.C., Panama 11.55–05.00
3)	HP5K	6005	49.96	1	La Voz de la Victor, Colon
4)	HP5B	6030	49.75	0.25	R. Cadena Miramar, Panama 11.00–06.00
5)	HOU31	6045	49.63	1	La Voz del Baru, David 11.00–04.00
6)	HORT	*6060	49.50	0.5	R. Balboa, Panama
7)	HOO	*6090	49.26	0.3	R. Independiente, Panama
8)	HP5H	*6122	49.00	0.5	La Voz del Pueblo, Panama
9)	HOQQ	*6140	48.86	0.5	R. Nacional, Panama
10)	HP5G	*6175	48.58	0.3	R. Panamericana, Panama
11)	HOLA	9505	31.56	0.25	R. Atlantico, Colon 11.00–04.00
12)	HP6J	*9607	31.23	0.5	La Voz de Panama, Panama
13)	HOJ53	*9645	31.10	0.3	R. Mia, Panama
2)	HOF31	9685	30.98	1	Onda Popular, Pan. 11.55–05.00

Medium Waves: Call: HO—. °=Short Waves. *=FM.

	Call	kc	kW
14)	N31	550	1
2)	H2	560	0.25
15)	O23	575	0.25
2)	H3	590*	1
2)	HM	610*	10.0
16)	K	640	0.25
13)	S22	°645*	1
2)	H4	660*	1
1)	LY	°670	0.5
17)	F32	680	0.5
10)	A	°700	1
18)	X45	715a)	0.5
4)	HP5C	°730	0.5
18)	X44	745a)	0.5
19)	XO	760	5
20)	ACA20	790	5
2)	F33	810*	1
21)	G	830	0.25
22)	N35	855a)	0.1
23)	HO	870	1
23)	H33	880a)	0.25
8)	HA	°900	0.5
13)	S56	920	1
18)	X	940a)	0.5
24)	B33	950	1
2)	F	°965*	3
25)	R59	990	1
15)	U44	1015*	1
2)	F2	1020	0.25
5)	U	°1025	1
26)	U23	1030	0.3
13)	S21	1035	1
27)	J2	1045	1
28)	B43	1050	1
12)	HPM21	1060	0.5
29)	D21	1070	0.25
21)	G2	1090	0.25
30)	R58	1100	0.25
2)	F4	1120	1
13)	J	1130	0.5
31)	B49	1140	1
32)	S25	1150	0.25
33)	NZ	1170	0.25
34)	OC	1180	1
35)	E91	1210	4
10)	W	1230	0.1
36)	M56	1240*	1
9)	Q	°1250	0.25
37)	J22	1265	0.15
38)	JU	1280	0.25
17)	S23	1295	1
11)	K3	1310	0.3
39)	L55	1315	1
31)	M92	1330	1
18)	X24	1355a)	0.5
12)	HP5J	°1380	0.25
11)	L	°1390	1
40)	HS	1400	1
6)	RS	°1410	0.5
20)	ACB20	1420	1
16)	C	1440	0.25
41)	D42	1460	0.25
7)	OH	°1470	1
3)	N	°1500	1

a) = under construction.
Short Waves:
1) Apt. 1979, Panama. **Te.**: 3-5425 – **L.P.**: Dir. Gen.: Rev. E. M. de Laburu S. J. Dir. Prgr.: A. Rivera – **D. PRGR.**: **N.**: 11.45–17.00, 23.00 – **ANN.**: "R. Hogar, La Emisora Catolica al Servicio de la Paz y la verdad" – **V.** by letter. Re. in Sp, E – **F.PL.**: FM st.
2) Apt. 1795, Panama. **Te.**: 5-0160. **Cable:** Erepece – **L.P.**: Dir. Gen.: F. Eleta A. Dir. Tec.: L. O'Meally – **C.R.P.C.**: M.w.: HOH2 Colon, HOH3 Chitre, HOHM Panama, HOH4 David – **S.w.**: HOM50 Panama – **FM**: HOH/HOH86 Panama, HOH87 Chitre – **D. PRGR.**: **N.**: 11.30, 15.30, 18.00, 23.00 – **Onda Popular: M.w.**: HOF33 Chitre, HOF Panama, HOF2 Colon, HOF4 David – **S.W.**: HOF31 Panama – **FM**: HOF87 Chitre, HOH88 Panama – **ANN.**: "Onda Popular" – **V.** by QSL-card. Re. in Sp. or E.
3) Apt. 33, Colon – **L.P.**: J. Jaén y Jaén.
4) Apt. 1214, Panama. **Te.**: -30239 – **L.P.**: Dir. Gen.: H. D. J. Antonio Delgado. St. Mgr.: A. Jimenez. Dir. Tec.: R. Diaz – **D. PRGR**: 11.00–06.00 on 730/6030 kc – **N.**: 12.00, 18.00, 21.30, 23.00, 24.00, 02.00 – **V.** by letter.
5) Apt. 160, David – 6) Apt. 4369, Panama – 7) Apt. 545, Panama.
8) Apt. 1045, Panama – 9) Apt. 552, Panama – 10) Apt. 1121, Panama.
11) Apt. 444, Colon – HOK3: **La Onda de la Alegria** – **L.P.**: Dir. A. Galindo – **V.** by QSL-card.
12) HP5J/HP6J: Apt. 867, Panama. HPM21: **La Voz de Ancon,** Av. Central 169, Panama – **L.P.**: Pres.: M. Diaz Doce. Gen. Mgr.: J. G. Diaz I – **D. PRGR.**: **N.**: 12.00, 17.30, 23.30 – **ANN.**: "Desde Panama Puente del Mundo Corazon del Universo Trasmite La Voz de Panama decana de las Emisoras Nacionales Compruebe su tiempo" – **V.** by letter.
13) **R. Mia,** Apt. 5117, Panama – **L.P.**: Owner R. Pereira.
Medium Waves: D. PRGR.: Approx. 11.00–04.00.
14) **R. Aeropuerto,** Apt. 4824, Panama – **L.P.**: Pres.: J. L. Salas.
15) **R. Capital,** Apt. 5124, Panama – **L.P.**: Dir.: O. Antonio Mocci. Mgr.: B. Prados de Mocci – **D. PRGR.**: 24 h – **N.** every 15 min. – **ANN.**: "R. Capital, un capital de diversiones para Ud. en 575 kc, desde Panama, capital de la República de Panama".
16) **Cadena Panameña de Radiodiff.,** Apt. 33, Colon – **L.P.**: as 3).
17) **R. Centenario,** Ca. 101 Entre Av. C y B. sur, Puerto Armuelles – **L.P.**: Dir.: R. D. González – 18) Panama – **L.P.**: Dir.: L. Chiari.
19) **La Voz del Istmo,** Apt. 3269, Panama – **L.P.**: St. Mgr.: R. Beukema. Dir. Tec.: H. Erickson – **D. PRGR.**: **Spanish** 11.00 (Sun 11.30)–04.00. **English**: W: 11.00–14.00, 01.00–04.00. Sun: 11.30–17.00, 00.45–04.00 – **N.**: **E**: 11.45, 03.00 **Sp.**: 15.00, 17.00, 22.00 – **ANN.**: **E**: "This is HOXO, the Voice of the Isthmus, 760 kc in Panama". **Sp**: "esta es La Voz del Istmo, 760 kc en Panamá, HOXO". **V.** by QSL-card.
20) **Caribbean Forces Network** (AFRTS), Fort Clayton, Canal Zone, ACA 20 Panama, ACB20 Colon.
21) **Estacion de la Communidad,** Apt. 1121, Panama HOG2: Ca. 101 9080, Colon – **L.P.**: as 10) – 22) Apt. 40L, David.
23) **R. Musical,** Apt. 355, Panama – 24) **R. Cultura,** Apt. 249, Concepcion – 25) **R. Leblanc,** Ca. 16 Oeste 13a–20, Panama – 26) **R. Zarati, Av.** Juan D. Arosemena, Pononome.
27) **Ondas del Canajagua,** Las Tablas – **L.P.**: Owner: F. Jolly – 28) **La Voz de Bocas del Toro,** Bocas del Toro.
29) **Ondas del Caribe,** Av. Melendez y Roosevelt 8044, Colon – **L.P.**: Owner J. M. Carrasquilla – 30) **R. Mil Cien,** Apt. 1100, Panama – **L.P.**: Owner J. Arias – 31) **Cadena Universal,** Panama – 32) **R. Mia de Colon.**
33) **Ondas Istmenas,** Apt. 3237, Panama – **L.P.**: as 22).
34) **C. de Ondas Chiricanas,** Apt. 172, – **L.P.**; Owner: E. del C. Calvo.
35) **R. El Mundo,** Apt. 1566, Panama – **L.P.**: Owner M. P. de Valdéz –
36) **R. David,** Apt. 328, David – **L.P.**: Owner: F. Moncada Luna –
37) **R. Horizontes,** Panama – **L.P.**: Dir. J. R. Auerbach – 38) **La Voz del Vigia,** Av. Rodolfo Chiari, Aguadulce.
39) **R. Reforma,** Apt. 1201, Chitre – **L.P.**: Owner: P. Solis Villalaz – **D. PRGR.**: 10.57–03.30 – **N.**: 11.00, 11.50, 17.00, 18.00, 00.03 – **INT.-SIG.**: Gong – **V.** by QSL-card and letter.
40) **Ondas Centrales,** Santiago – **L.P.**: Owner: H. Santacoloma –
41) **La Voz de Almirante,** Ca. 6a y Av. N., Almirante – **L.P.**: Dir. Gen.: N. O. Dosman H – **D. PRGR.**: Mo-Fri 16.00–19.00, 22.00–04.00. Sat/Sun 10.00–24.00 – **N.**: 18.00 – **English:** Mo 23.45, Tues 22.45, Wed/Fri 00.15, Sun 16.15 – **INT.-SIG.**: Chimes – **V.** by QSL-card and letter



PUERTO RICO (U.S. Territory)

L.T.: GMT÷4 h – **Pr.L.**: Spanish, English.

BROADCASTERS ASSOCIATION OF PUERTO RICO

ADDR.: P.O. Box 10144, Santurce.
STATIONS: All st.'s comm. exc. 11) – St.'s allowed to operate as many h's as they wish. [1]=also FM.

	Call	kc	kW	Call	kc	kW	Call	kc	kW
1)	WPAB	550	5/1	5) WAPA	680	10	9) WABA	850	0.5
2)	WKAQ	580[1]	5	6) WKJE	710	1/0.5	10) WRRP	910	5
3)	WAEL	600	1	7) WIAC	730	10	11) WIPR	940[1]	10
4)	WKYN	630	1	8) WKVM	810	25	12) WPRA	990	10

Puerto Rico – Windward Islands

Call	kc	kW	Call	kc	kW	Call	kc	kW
13) WITA	1030	1	22) WISO	1260	1	31) WNEL	1430	1/0.5
14) WMIA	1070	0.5	23) WCMN	1280	1	32) WMDD	1490	0.25
15) WRJS	1090	0.25	24) WTIL	1300	1	33) WMNT	1500	0.25
16) WVJP	1110	0.25	25) WRIO	1320	5/1	34) WWWW	1520	0.25
17) WITA	1140	0.5	26) WGRF	1340	0.25	19) WKSE	1550	0.25
18) WORA	1150¹¹		27) WIVV	1370	1	35) WRSJ	1560	5
19) WLEO	1170	0.25	28) WISA	1390	1/0.5	36) WXRF	1590	1
20) WNIK	1230	0.25	29) WHOA	1400	0.25			
21) WALO	1240	0.25	30) WEUC	1420	1			

FM: 37) WFID 95.7 Mc – 38) WPRM 98.5 Mc 17.5 kW

D. PRGR.: 10.00 approx. 04.00 exc. where indicated.

1) R. WPAB, P.O. Box 786, Ponce – L.P.: Mgr.: A. Gimenez Jr. – D.PRGR.: 10.00–02.00. English: 15.30–18.00 – V. by letter.

2) El Mundo Broadc. Corp., 654 Ponce de Leon Av., San Juan

3) R. WAEL, Box 297, Mayaguez

4) Quality Broadc. Corporation, Rio Piedras

5) R. WAPA, Box 4563, S. Juan

6) R. WKJB, Box 1293, Mayaguez – L.P.: Mgr.: J. A. Bechara Jr.

7) R. WIAC, 261, Ponce de Leon Av., S. Juan – L.P.: Mgr.: T. Muniz

8) American Colonial Broadc. Corp., Box 4189, S. Juan.

9) R. WABA, Box 188, Aguadilla – L.P.: Mgr.: F. Bonnet.

10) Voice of Puerto Rico, Box 430, Ponce – L.P.: Mgr.: A. R. de Arellano – ANN.: "Transmite WPRP, Ponce, Puerto Rico, 910 kc en el cuadrante de su radio".

11) Department of Education of P.R., P.O. Box 909, Hato Rey – L.P.: Dir. Gen.: J. Delano – D.PRGR.: 11.00(Sun 12.00)–02.15 – N.: 14.00, 16.00, 19.00, 22.00 – ANN.: "These are radio station WIPR and WIPR-FM in San Juan, Puerto Rico" – V. by QSL-card.

12) R. WPRA, Box 869, Mayaguez – D.PRGR.: 24 h.

13) Electronic Enterprises Inc., San Juan.

14) Abacoa Radio Corp., Barrio San Daniel, Insular rd. 2, Arecibo – L.P.: Mgr.: C. M. Pirallo – D.PRGR.: 09.30–04.00.

15) R. Station WRSJ, San German.

16) Borinquen Broadc. Corp., Box 207, Caguas – L.P.: Mgr.: H. Pereira – D.PRGR.: 12.00–03.00.

17) Electronic Enterprises Inc., Box 2792, S. Juan – L.P.: Mgr.: M. A. Suarez – D.PRGR.: 04.00–16.00 Mo through Sun.

18) Radio Americas Corp., Box 43, Mayaguez – L.P.: Mgr.: R. M. Dupont – D.PRGR.: 10.00–02.00.

19) Ponce Broadc. Corp., Box 1526, Ponce – L.P.: Mgr.: C. Cordero. Dir. Tec.: J. H. Conesa – D.PRGR : 09.30–04.00 – V by QSL-card.

20) Arecibo Radio Corp., Box 1075, Arecibo – L.P.: Mgr.: L. E. Freyre – D.PRGR.: 10.00–03.00 – V. by letter. Rp.

21) R. WALO, Desengano Str., Humacao – L.P.: Mgr.: A. L. Ochoa.

22) South P. R. Broadc. Corp., Box 2023, Ponce.

23) Caribbean Broadc. Corp., Box 7, Arecibo – L.P.: Mgr.: N. Barreto.

24) Mayaguez Radio Corp., Box 1346, Mayaguez – L.P.: Mgr.: G. Mamary – D.PRGR.: 10.00–04.00 – V. by QSL-card or letter.

25) Master Broadc. Corp., Barrio Monacillos, Insular rd. 1, Rio Piedras – L.P.: Mgr.: I. Quinones V – D.PRGR.: 10.00–04.00.

26) Jaicoa Broadc. Corp., Box 863, Aguadilla.

27) Calvary Baptist Mission of P.R., Box 338, Vieguez Island – L.P.: Dir. Gen.: D. Luttrell. Dir. Tec.: G. Carr – D.PRGR.: 09.30–03.30. N.: 11.00, 17.00, 23.00, 02.00 – V. by letter.

28) R. Station WISA, Isabela – L.P.: St. Mgr.: R. Santiago. Dir. Tec.: C. Rodney – D.PRGR.: 10.00–03.00 – V. by letter.

29) Continental Broadc. Corp., 566 Ponce de Leon Av., S. Juan – L.P.: Mgr.: W. R. Anthony – D.PRGR.: 10.30–05.00.

30) Catholic University of Puerto Rico, Service Assn. Campus, Ponce – L.P.: Rev.: W. E. Alvarez.

31) Atlantic Broadc. Corp., Box 487, Caguas – L.P.: Mgr.: M. Diaz Collazo – D.PRGR.: 24 h – N.: Every h on the h – F.PL.: 5 kW.

32) R. WMDD, Box 387, Fajardo – D.PRGR.: 10.00–02.00.

33) R. Station WMNT, Manati.

34) R. WWWW, Box 935, Rio Piedras – L.P.: Mgr.: F. A. Gandia.

35) R. San Juan, P.O. Box 5627, San Juan – L.P.: Gen. Mgr.: J. Morales – D.PRGR.: 09.30–05.00. N. & Wrp.: Every h on the h.

36) Guayama Broadc. Co., Hostos 42N, Guayama – L.P.: Mgr.: G. Cordero Jr. – D.PRGR.: 10.30–03.00 – V. by QSL-card.

37) Fidelity Broadc. Corp., J-one-Violeta Str., Rio Piedras.

38) P. R. Music Services, P.O. Box 5369, Puerto de Tierra.

ARMED FORCES RADIO & TV SCE.: see USA.

SWAN ISLAND

L.T.: GMT ÷ 6 h – Pr. L.: English, Spanish.

RADIO AMERICAS (Comm.)

ADDR.: P.O. Box 352, Miami 1, Fla. – L.P.: Pres.: Wm. H. West, Jr.

STATIONS: 1160 kc 259 m 50 kW – 6000 kc 50.00 m 7.5 kW.

D. PRGR.'s in Spanish & English: 10.00–13.00, 17.30–19.00, 20.00–05.00.

English: 23.00–23.30. Other times Spanish.

ANN.: E: "This is Radio Americas, the Voice of truth for all the Continent". Sp.: "Esta es Radio Americas, La Voz de la Verdad para todo el Continente".

TRINIDAD

L.T.: GMT ÷ 4 h – Pr. L.: English.

RADIO TRINIDAD (Comm.)

FI.: By adv. – ADDR.: Broadcasting House, 11B, Maraval, Rd., Port-of-Spain. Cable: Broadcast. Te.: 21151 – L.P.: Mgr.: J. M. Laing. Eng.-in-Charge: J. N. Elven.

STATIONS: 730 kc 410 m 20 kW – FM: 95.1 Mc 1 kW.

HOME SCE. in English: D 10.00–03.00 *)Wrp.

N.: 10.45*, 11.00 (BBC), 12.00*, 13.00 (BBC), 15.00, 16.00 (BBC), 16.30*, 18.00, 20.00 (BBC), 22.00, 23.45*, 02.00 (BBC).

ANN.: "This is R. Trinidad, the Voice of the West Indies" – V. by QSL-card. Rp. – PUB.: Prgr. schedule free on request.

RADIO GUARDIAN (Comm.)

FI.: By adv. – AD.: 10 min. per h exc. during 90 min. reserved for Go. use – ADDR.: 17 Abercromby Street, Port of Spain. Cable: Voice. Te.: 32618 – L.P.: Dir. Gen.: B. Shellon. Mgr.: L. Heywood. Dir. Tec.: F. Thomson.

STATIONS (Systems RCA):
610 kc 10 kW – FM 98.9 Mc 0.25 kW.

HOME SCE. in English: 11.00–04.00.

N.: on the h – Wrp.: On the ½ h. – ANN.: "This is R. Guardian, The Voice of Trinidad, Tobago" – V. by letter.

ARMED FORCES RADIO & TV SCE.: see USA.

TURK ISLANDS (British)

L.T.: GMT ÷ 4 h – Pr.L.: English.

RADIO STATION VSI – ADDR.: British Cable & Wireless Ltd., Grand Turk. – L.P.: Superintendent M. Hyatt. – STATION: VSI 4560 kc. D. (exc. Sun) 16.00: local news, shipping information etc. – V. Re. are welcomed Rp.

VIRGIN ISLANDS (American)

L.T.: GMT ÷ 4 h – Pr.L.: English.

ST. CROIX:

RADIO AMERICAN WEST INDIES, INC. (Comm.)

ADDR.: P.O. Box 931, Christiansted, St. Croix. Cable: RAWI. Te.: 223 – L.P.: Pres.: Mrs. H. M. Higdon.

STATION: WIVI 970 kc 309 m 1 kW: D 09.30–04.30.

HOME SCE.: D 09.30–04.30. N.: hourly – V. by QSL-card.

ST. THOMAS:

W. I. INDUSTRIES, INC. (Comm.)

ADDR.: P.O. Box 538, Charlotte Amalie, St. Thomas. Cable: WSTA. Te.: 489 – D.PRGR.: 10.00–04.00 on 1340 kc 223.8 m 0.25 kW – V. by letter.

WINDWARD ISLANDS

L.T.: GMT ÷ 4 h – Pr.L.: English.

WINDWARD ISLANDS BROADCASTING SERVICE (Go.)

FI.: By state and by license fees – ADDR.: St. George's Grenada, W.I. Cable: Broadcasts. Te.: 4251 – L.P.: Man. Dir.: A. C. G. Palmer, M.B.E. Dir. Tec.: R. A. Smith, Memb. I.R.E.

HOME SCE.: a) Grenada, b) Dominica, c) St. Vincent, d) St. Lucia.

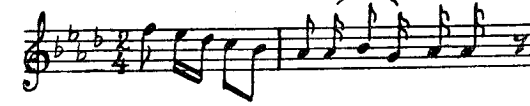
St. George's	a)	540	556.0	0.5	15.30–17.30, 20.00–02.15
Roseau	b)	1530	196.0	0.025	15.30–17.30, 20.00–02.15
Kingstown	c)	1575	191.0	0.025	15.30–17.30, 20.00–02.15
Castries	d)	1580	190.0	0.025	15.30–17.30, 20.00–02.15
St. George's	*	3280	91.40	5	22.40–02.15
–	*	5010	59.88	5	20.00–22.40
–	*	6080	49.34	0.25	15.30–17.30 (spec. broadc. 13.00–20.00)
–	*	9520	31.51	0.25	
–		9500	31.58	0.25	23.00–02.15
–		15085	19.89	0.25/5	20.00–22.40

* to Eastern Caribbean.

N.: D: BBC: 16.00, 20.00, 23.00. Local: 16.40, 17.15, 20.30, 22.30, 23.45, 02.00.

OVERSEAS SCE. (to British Isles) on 15085 kc during the period 18.00–22.30 as required for special broadcasts: non daily.

ANN.: "This is the Windward Islands Broadcasting Service" – INT.-SIG.: A typical calypso phrase played on the "ping-pong", an indigenous instrument made from the top of a steel drum.



V. by QSL-card. Re.: below 9 Mc not wanted, not answered. Above 9 Mc wanted. Answered to best of ability due very limited staff – F.PL.: Roseau 640 kc 0.5 kW. Kingston 690 kc 0.5 kW. 9520 kc to be discontinued. 6080 kc 5 kW – PUB.: Prgr.sched. (weekly).

RADIO CARIBBEAN (Comm.)
Fl.: By adv. – **AD.:** Max. 5 min. per h – **ADDR.:** P.O. Box 121, Castries, St. Lucia, W.I. **Cable:** Caradio. **Te.:** 405 – **L.P.:** Dir. Gen.: M. Ferry. Dir. Tec.: M. J. Charles. Dir. Foreign Rel.: B. V. Volkoff.
STATION: 830 kc 20 kW.
HOME SCE. in English, French, Spanish: W 15.00–03.15. Sun 14.00–03.15.
N.: Every h on the h in French; every h on the half h in English – **Wrp.:** 16.00, 22.00, 23.00 – **L.L.:** "English by Radio" (BBC prgr.) Tues, Thurs, Sat 22.00.
ANN.: E: "This is R. Caribbean, St. Lucia, West Indies, operating on frequency of 830 kc in the medium wave band". F: "Ici R. Caraibes, St Lucie, emettant sur 830 kc" – V. by letter Rp.

SOUTH AMERICA

ARGENTINA

L.T.: GMT ÷ 3 h – **Pr.L.:** Spanish.

SECRETARIA COMMUNICACIONES

ADDR.: Buenos Aires. **Cable:** Gentel-Baires. **Te.:** 49-9558.
L.P.: Secr. of Communicaciones: Ing. R. Ondants. Vice-Secretary: V. S. Mangonet. Dir. Gen.: S. S. Guillani.

R. NACIONAL (Go.)

ADDR.: Ayacucho 1556, Buenos Aires. **Te.:** 84-2021 – **L.P.:** Dir. Gen.: D. L. A. Quesada.
HOME SERVICE: **Short Waves:**

Call	kc	m	kW	h of tr.
LRA31	6060	49.50	16	11.00–03.00
LRA34	6180	48.54	10	13.00–03.00
LRA32	9690	30.96	100	Sat/Sun 21.30–04.00
LRA33	15345	19.55	100	13.00–19.00(Sat/Sun 21.00)

Medium Waves: °=Short Waves.

Name	Call	kc	kW	H. of tr.
Ushuaia	LRA10	620	5	13.00–17.00, 21.00 02.00
Esquel	LRA9	670	5	11.00 18.00, 21.00–03.00
Salta	LRA4	690	10/5	13.00–03.00
Cordoba	LRA7	750	50	11.00–03.00
Formosa	LRA8	780	5	12.00–03.00
Santa Rosa	LRA3	840	20/5	13.00–03.00
B. Aires	LRA	°870	100	11.00–04.00
C. Rivadavia	LRA11	900	5	13.00–17.00, 23.00–03.00
Mendoza	LRA6	°960	20/5	12.00–03.00
Rosario	LRA5	1390	5	11.00–03.00

D. PRGR.: N.: 12.00, 16.00, 24.00 – V. by QSL-card.

INTERNATIONAL SERVICE

ADDR.: Radiodifusion Argentina Al Exterior (R.A.E.), Sarmiento 151, Buenos Aires.
STATIONS:
LRA32 9690 kc 30.96 m 100 kW d. – LRA35 11730 kc 25.58 m 100 kW d.
TO EUROPE: Mo-Fri: 19.00–24.00 on 11730 kc.
Spanish 19.00 – **German** 20.00 – **Italian** 21.00 – **French** 22.00 – **English** 23.00.
TO USA: Tues-Sat: 00.00–04.00 (Ea.), 04.02–07.02 (We), on 9690 kc.
Portuguese 00.00 – **Spanish** 01.00 – **English** 03.00 – **Spanish** 04.02 – **English** 06.02.
Prgr.'s: N., Argentine Music, Folk Music, Mailbag every Thurs. **ANN.: Sp.:** "Aqui Argentina". **G.:** "Hier spricht Argentinien". **I.:** "Qui Argentina". **F.:** "Ici l'Argentine". **E.:** "This is Argentina calling". **P.:** "Aqui Argentina" – V. by QSL-card.

OFFICIAL STATIONS (Go.)

Call	kc	kW	Name and h of tr.
1) LS1	710	50	R. Municipal: 11.00–03.00
2) LU14	730	5	R. Provicia de Santa Cruz: 11.00–05.00
3) LS11	1270	50	R. Provincia de B. Aires: 10.00–03.00

1) Arturo Toscanini 1168, Buenos Aires.
2) Rocha y Chacabuco, Rio Gallegos.
3) Ca. 10 y Av. 53, La Plata – **L.P.:** Dir.: A. F. Vaso. Dir. Tec.: M. A. Cabut. **N.:** 10.00, 11.30, 12.30, 13.30, 14.30, 16.00, 17.30, 18.30, 19.30, 20.30, 21.30, 22.30, 23.30, 00.30, 02.00.

CULTURAL STATIONS:

Call	kc	kW	Name and h of tr.
7) LR11	1390	5/2.5	R. Universidad Nacional de la Plata: 13.00–03.00
8) LT10	1430	1.5/0.5	R. Universidad Nacional del Litoral: 15.00–03.00

7) Plaza Rocha 133, La Plata.
8) Blvd. Pellegrini 2750, Santa Fe.

COMMERCIAL STATIONS

ASOCIACION RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)

ADDR.: Cordoba 1114, Buenos Aires. **Cable:** Arpa-Baires. **Te.:** 424964 – **L.P.:** Pres.: B. A. Martinez.

COMISION ADMINISTRADORA DE EMISORAS COMERCIALES Y TV

ADDR.: Cerrito 941, Buenos Aires. **Te.:** 42-0411.
Short Waves: Location: Buenos Aires.

Call	kc	m	kW	Name and h of tr.
1) LRS2	5985	50.13	10	R. Splendid: 09.59–01.35
2) LRY1	6090	49.26	50	R. Belgrano: 14.00–04.15
3) LRX1	6120	49.02	10	R. El Mundo: 12.00–04.00
3) LRX	9660	31.06	15	R. El Mundo: 09.00–14.00
3) LRX2	9712	30.89	10	R. El Mundo: 13.00–04.00
1) LRS1	9740	30.79	10	R. Splendid: 09.45–01.30
2) LRY	9760	30.74	10	R. Belgrano: 09.00–20.30
1) LRS	11880	25.25	10	R. Splendid: 09.45–02.00
3) LRU	15290	19.62	7.5/10	R. El Mundo: 10.00–14.00

Medium Waves: °=Short Waves.

Call	kc	kW	Call	kc	kW	Call	kc	kW
4) LV1	560	10/3	23) LV7	900[3]	10/5	40) LR9	1190	5
5) LT15	560	5/3	1) LR4	°910	50	41) LW3	1190[1]	10/5
6) LV12	590°	10/5	2) LR3	°950	50	42) LT6	1200[1]	1
7) LS4	590*	10/5	24) LV2	970[2]	15/5	43) LU10	1200*	3
8) LU8	590[1]	5/1	25) LW8	960[3]	3	44) LV10	1210*	10/5
9) LS5	630	10/3	26) LR5	990	50	45) LT2	1230	15/5
10) LV14	630[2]	5/1.5	27) LT4	1010*	5	46) LU3	1240*	10/5
11) LV15	640[1]	1	28) LV16	1010*	5/2.5	47) LV13	1250[3]	5
12) LU4	640[3]	5	29) LS10	1030	10/5	48) LT9	1260	5/2.5
13) LU9	670*	10/1	3) LR1	°1070	50	49) LT11	1300[1]	3/1.5
14) LU12	680*	5	30) LT5	1080[3]	5	50) LU13	1300*	3/1.5
15) LV6	680*	10/5	31) LV5	1090[3]	15/5	51) LT14	1320[2]	5/2.5
16) LV4	690[1]	1	32) LR2	1110	20/5	52) LU6	1320[3]	5/2.5
17) LW7	730[1]	5/1	34) LU7	1120[3]	10/5	53) LT7	1340*	5/1
18) LV8	780	10/5	35) LU5	1130[1]	1	54) LS6	1350	10/5
19) LR6	790	50	36) LV9	1130*	5	55) LT12	1360[2]	3/1.5
20) LW1	820	15	37) LV3	1150[3]	10	56) LT16	1370[1]	3/1.5
21) LU2	820*	10/5	38) LT3	1160[2]	10/5			
22) LT8	830[2]	10/5	39) LV11	1170[2]	5			

* belongs to ARPA. Other st.'s belong to the Government or the universities exc. 4, 9, 30 and 47 which are independent comm. st.'s – [1] In chain with LR4 R. Splendid, Buenos Aires – [2] In chain with LR3 R. Belgrano, Buenos Aires – [3] In chain with LR1 R. El Mundo, Buenos Aires.
Short Waves:
1) Uruguay 1237, B. Aires. **Te.:** 42-9601.
L.P.: Dir. Gen.: F. Ferretti. Dir. Tec.: E. C. Grasiani – **D. PRGR.:** 09.45–05.00 on 910 kc.
The Reg. st.'s relay LR4 as follows: 09.59, 10.59, 12.57, 14.52, 15.19, 19.59, 20.53, 21.53 – **N.:** 10.00, and every h on the h from 11.00 – **ANN.:** "LR4 R. Splendid de Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 de la Red Argentina de Emisoras Splendid" – **INT.-SIG.:** 4 notes on electronic gong – V. by letter.
2) Office: Cerrito 941, B. Aires. Studio: Ayacucho 2075, B. Aires. **Te.:** 429661 – **L.P.:** Dir.: Dr. J. O. von Oertel – **D. PRGR.:** 09.00–04.15 on 950 kc – **N.:** 09.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00 – **ANN.:** "Transmite LR3 R. Belgrano de Buenos Aires con sus ondas cortas LRY, LRY1 y en circuito de Emisoras" – **INT.-SIG.:** 4 notes on vibraphone – V. by QSL-card.
3) Maipu 555, B. Aires. **Te.:** 310084. **Cable:** "Radiomundo" – **L.P.:** Dir. Gen.: R. Razetti – **D. PRGR.:** 09.45–04.30 on 1070 kc – **FOREIGN SCE.: English, Spanish, Portuguese:** D 14.00–15.00 on 6120/15290 kc, 04.00–05.00 on 6120/9712 kc – **ANN.:** "LR1 R. El Mundo de Buenos Aires y su Red Azul y Blanca de Emisoras Argentina" – **INT.-SIG.:** Gong – V. by QSL-card.
Medium Waves: 10.00–04.00 exc. where indicated.
4) **R. Colon,** Mendoza 369, San Juan – **L.P.:** Dir. Gen.: A. Grafigna.
5) **R. Concordia,** La Rioja 622, Concordia. **Te.:** 1700 – **L.P.:** Dir.: C. Pinola – D 09.30–03.00.
6) **R. Independencia,** Rivadavia 118/20, Tucuman – **L.P.:** Dir.: P. Loaja – D 10.30–04.30.
7) **R. Porteña,** Rivadavia 527, Buenos Aires. **Te.:** 305031 – **L.P.:** Dir.: T. Bidegain – D 10.30–08.00.
8) **R. Bariloche,** Ruta Complement 237, Ci. de Bariloche – **L.P.:** Dir.: C. Lamuniere – D 12.00–02.00.
9) **R. Rivadavia,** Arenales 2467, B. Aires. **Te.:** 80-1080 – **L.P.:** J. Monk-D 24 h.
10) **R. La Rioja,** Soldado Perazzone 69, La Rioja – **L.P.:** Dir.: R. A. Flores – D 11.00–04.00.
11) **R. Mercedes,** Balcarce 470, Villa Mercedes – **L.P.:** Dir.: A. Ponce.
12) **R. Comodoro Rivadavia,** Mo. Noreno 765, Ci. Rivadavia – **L.P.:** Dir.: F. Balbuena. D 09.00–05.00.
13) **R. Mar del Plata,** Moreno 2473, Mar del Plata. **Te.:** 20108 – **L.P.:** Dir.: H. A. Rosso – D 24 h.
14) **R. Rio Callegos,** Av. San Martin 461, Rio Callegos. **Te.:** 23 – **L.P.:** Dir.: E. R. Guatti – D 12.00–03.00.
15) **R. Nihuil,** Rioja 1239, Mendoza. **Te.:** 32148 – D 09.55–04.00.
16) **R. San Rafael,** Irigoyen y Francia, San Rafael – **L.P.:** Dir.: S. Illa – D 09.55–03.55.
17) **R. Catamarca,** Rivadavia 741, Gatamarca – **L.P.:** Dir.: N. E. Morcos – D 10.55–03.05.

18) **R. Libertador,** Ricja 1484, Mendoza – **L.P.:** Dir.: M. Valenti – D 10.30–04.00.
19) **R. Mitre,** Arenales 1925, B. Aires – **L.P.:** Dir.: R. Carmendia – D 24 h.
20) **R. Universidad de Córdoba,** Rivara Indarte 170, Córdoba – **L.P.:** Dir.: E. J. Garzón Maceda. Dir. Tec.: H. Blesio – D 09.30–04.00.
21) **R. Bahia Blanca,** *Sarmiento 54, Bahia Blanca.* **Te.:** *30073* – **L.P.:** Dir.: D. J. P. de Massot.
22) **R. Rosario,** Córdoba 1825, Rosario – **L.P.:** Dir.: J. A. Peiretti.
23) **R. Tucumán,** Mendoza 273, S. Miguel de Tucumán – **L.P.:** Dir.: J. E. Gomez.
24) **La Voz de la Libertad,** Maipú 166, Cordoba – **L.P.:** Dir.: M. Bazan – D 09.30–04.30.
25) **R. Jujuy,** R. de Velazco 253, Jujuy – **L.P.:** Dir.: C. E. Figueroa.
26) **R. Excelsior,** Rivadavia 827, B. Aires – **L.P.:** Dir.: C. Mileo – D 10.00–07.00.
27) **R. Misiones,** Bolivar 322, Posadas. **Te.:** 5999 – **L.P.:** Dir.: C. Madelaire – D 08.00–04.00.
28) **R. Ranquel,** Colón 78, Rio Cuarto – **L.P.:** J. L. Baetti.
29) **R. Libertad,** Florida 165, B. Aires – **L.P.:** Dir.: A. Romay – D 09.30–04.00.
30) **R. Chaco,** Av. 9 de Julio 1855, Resistencia – **L.P.:** Dir.: J. B. Sobrado – D 09.30–04.00.
31) **R. Los Andes,** Mendoza 466, San Juan – **L.P.:** M. V. Valenti.
32) **R. Argentina,** Santa Fé 2043, B. Aires – **L.P.:** Dir.: A. Maida – D 09.00–04.00.
34) **R. General San Martin,** Alsina 247, Bahia Blanca – **L.P.:** Dir.: R. Rosell.
35) **R. Neuquén, J. B.** Alberdi 189, Neuquén – **L.P.:** A. Vanoli – D 09.59–03.30.
36) **R. Guemes,** Deán Funes 28, Salta. **Te.:** 5051 – **L.P.:** Dir.: M. P. Tato – D 10.00–05.00 – **ANN.:** "LV9 R. Güemes de Salta".
37) **R. Córdoba,** San Martin 74, Córdoba – **L.P.:** Dir.: J. Joaquin Lasa – D 08.30–04.30.
38) **R. Cerealista,** Balcarce 840, Rosario – **L.P.:** Dir.: A. M. Ciampoli – D 10.00–05.00.
39) **R. Del Norte,** Libertad 251, Sgo. del Estero – **L.P.:** Dir.: R. Rodrigues Lobo – D 10.00–03.00.
40) **R. Antartida,** Arenales 1925, B. Aires – **L.P.:** Dir.: R. Garmendia – D 24 h.
41) **R. Splendid,** Mendoza 225, Tucumán – **L.P.:** Dir.: O. M. Nazardin – D 09.55–03.55.
42) **R. Beron de Astrada,** Mariano I, Llosa 231, Goya – **L.P.:** Dir.: M. Gaudioso – D 09.55–02.57.
43) **R. Azul,** Av. Bartolome Mitre 819, Azul. **Te.:** 1102 – **L.P.:** Dir.: J. S. Borrero.
44) **R. De Cuyo,** Av. Gral. San Martin y Gral. Paz, Mendoza. **Te.:** 19360 – **L.P.:** Dir.: M. Fernández Reca – D 24 h.
45) **R. Splendid Rosario,** Santa Fé 1388, Rosario – **L.P.:** Dir.: P. Spoletti.
46) **R. del Sur,** Lamadrid 116, Bahia Blanca. **Te.:** 20381 – **L.P.:** Mgr.: H. Long.
47) **R. San Luis,** Rivadavia 563, San Luis – **L.P.:** Dir. Gen.: G. Nadal.
48) **R. Santa Fé,** San Martin 2685, Santa Fé. **Te.:** 16086 – **L.P.:** Dir. Gen.: H. Caillet-Bois – D 09.00–04.00.
49) **R. Concepcion del Uruguay,** O. Leguizamon 269, Concepcion de Uruguay – **L.P.:** Dir.: J. Korach – D 09.55–03.30.
50) **R. Necochea,** Belgrano 3222, Necochea. **Te.:** 1630 – **L.P.:** Dir.: T. Rico – D 09.30–04.00.
51) **R. General Urquiza,** Rivadavia 64, Paraná – **L.P.:** Dir. Gen.: E. E. Rios.
52) **R. Atlantica,** Córdoba y San Martin, Mar del Plata – **L.P.:** Dir.: A. J. Munoz – D 09.30–06.00.
53) **R. Provincia de Corrientes,** Corrientes. **Te.:** 6250 – **L.P.:** Dir.: J. F. Gómez – D 09.00–07.00.
54) **R. del Pueblo,** Santa Fé 2043, B. Aires – **L.P.:** Dir.: A. Maida – D 09.00–03.00.
55) **R. General Madriaga,** Av. Ldor. Gral S. Martin, P. de los Libres – **L.P.:** J. J. Varela – D 10.00–03.00.
56) **R. Splendid,** Presidencia Reque Sáenz Pena-Chaco – **L.P.:** Dir.: R. R. Galetto – D 09.00–03.30.

BOLIVIA

L.T.: GMT+4 h – **Pr. L.:** Spanish.

DIRECCION GENERAL DE RADIOCOMUNICACIONES
Departemento de Radiodifusion, *La Paz.* **Te.:** 2436 – **L.P.:** Dir. Gen.: A. Salces Arce.

STATIONS: All st.'s comm. exc. 6) (Go.), 9) (Cultural), 5) (Rel.), 12), 15), 17), 19) (Educational). *)=inactive.

Short Waves:

	Call	kc	m	kW	Name and h of tr.
1)	CP66	3395	88.37	1	R. Centenario, Santa Cruz
2)	CP74	4785	62.70	1	R. Indoamerica, Potosi
3)	CP70	4825	62.18	1	R. Grigota, Santa Cruz
4)	CP59	4855	61.79	1	R. Cobija
5)	CP75	4985	60.75	5	La Cruz del Sur, La Paz
6)	CP5	5955	50.38	1	R. Illimani, La Paz: 11.00–04.00
7)	CP81	5955	50.38	0.5	R. Pio XII, Llallagua: 09.00–04.00
8)	CP44	5975	50.21	1	R. Nacional LAB, Cochabamba: 12.00–03.00
9)	CP41	5995	50.04	0.3	R. Loyola, Sucre: 11.00–13.30, 16.00–20.00, 21.00–02.30
10)	CP18	6055	49.55	1	R. El Condor, Oruro: 21.00–02.00
11)	CP15	6125	49.98	1	R. El Condor, La Paz: 11.00–18.00, 22.00–04.30
12)	CP30	6135	48.90	0.5	R. Prefectura, Santa Cruz: 15.00–18.00
13)	CP12	6155	48.74	1	R. Fides, La Paz: 16.00–18.00, 22.00–03.00
14)	CP9	6185	48.50	1	R. Amauta, La Paz: 12.00–18.00, 22.00–03.00
15)	CP23	6195	48.43	1	R. Prefectura, Tarija: 15.00–18.00, 22.00–03.00
16)	CP38	9505	31.56	5	R. Altiplano, La Paz: 12.00–03.00
6)	CP6	9555	31.40	10	R. Illimani, La Paz: 11.00–04.00
17)	CP22	9605	31.23	5	R. Prefectura, Potosi: 12.00–18.00, 22.00–03.00
18)	CP21	9715	30.88	1	R. La Plata, Sucre: 12.00–18.00, 19.00–03.00
5)	CP39	11765	25.50	1	La Cruz del Sur, La Paz: as 4985 kc
6)	CP7	11775	25.48	10	R. Illimani, La Paz: 11.00–18.00, 22.00–04.00
19)	CP40	15155	19.80	10	Ministerio de Comunicaciones, La Paz: 19.00–04.00

Medium Waves: °=Short Wave. **Call:** CP---.

Call	kc	kW	Call	kc	kW	Call	kc	kW
20) 63	620	1	26) 78	1160	0.25	13) 29	°1300	0.25
21) 68	620	0.25	27) 55	1200	0.25	33) 45	1330	0.25
22) 34	680	5	28) 67	1200	0.25	34) 36	1330	0.25
5) 27	°730	10	18) 54	°1250	0.25	3) 24	1340	0.25
23) 56	780	0.25	4) 47	°1250	0.25	35) 3	1390	1
24) 52	780	0.25	29) 16	1250	0.25	36) 28	1420	5
25) 61	780	0.25	2) 53	°1250	0.25	37) 8	1470	1
16) 35	°820	0.25	30) 26	1250	0.25	38) 80	1510	0.25
11) 20	°900	0.3	8) 69	°1250	0.25	39) 79	1510	0.25
14) 11	°960	0.25	31) 14	1250	0.25	40) 77	1510	0.1
6) 4	°1020	20	32) 65	1250	0.25	7) 50	°1550	1
1) 25	°1160	0.25	9) 51	°1300	0.25			

Short Wave:
1) Santa Cruz – 2) Soc. Coreaga y Cia., Potosi.
3) Soc. Comercial Colectiva Grigota, Santa Cruz.
4) Centro de Accion Pandina, Cobija.
5) Cajon 8, La Paz. **Te.:** 5578 – **FI.:** By Baptist Churches of Canada – **L.P.:** Dir. Gen.: R. Bonney. Dir. Prgr.: H. Parent. Dir. Tec.: J Mikaelsen – **D. PRGR.: N.:** 11.30, 12.00, 14.30, 17.00, 00.00, 02.00. **English:** D 02.30–02.45 – **"E. by R.":** Mo, Wed, Fri 00.45 – **"German by R.":** Thurs 23.45 – **"French by R.":** Mo, Wed, Fri: 23.15 – **ANN.:** E: "This is CP27 and CP39, the Southern Cross Radio Station...". Sp.: "R. La Cruz del Sur, Luz que senala el camino de la vida". At 03.00 (s/off): "This is the Southern Cross Radio" – **INT.-SIG.:** Opens with "God of our Fathers", closes with "The Heavens are telling".

V. by QSL-card. Rp. – **PUB.:** Prgr. sched. free on request.
6) Emisora del Estado, Av. E. Camacho Edificio Krsul, La Paz – V. by QSL-card – **F.PL.:** 10 kW tr.'s on 15300, 17865, 25700 kc.
7) Mision Católica Padres Oblatos, Llallagua.
8) Lloyd Aéreo Boliviano, Cochabamba.
9) Cas. 155, Sucre. **Cable:** Radioloyola. **Te.:** 1677 – **L.P.:** Dir. Gen.: R. Aguilo. Dir. Tec.: J. Lora – **D. PRGR.: N.:** 12.15, 15.30, 16.40, 19.00, 19.50, 21.30, 24.00, 02.00 – **Ketchua:** D 11.15 – **English:** Tues 23.00 – **L.L.:** (English): D 22.00 – **ANN.:** "Radioemisoras Loyola, Voluntad Católica de Bolivia por un Mundo Mejor" – V. by letter. **Re.** in E., Sp., F. or I. – **F.PL.:** s.w. 1 kW.
10) La Plata 1139, Oruro.
11) Av. Camacho 1471, La Paz. **Te.:** 3070 – **L.P.:** Dir. Gen.: S. Abdelnur Sare. Dir. Tec.: A. Sempértegui – **D. PRGR.: N.:** W 11.30, 16.30, 23.30, 02.30 – **ANN.:** "Estas son CP15 y CP20, estaciones de ondas corta y larga de R. El Condor, La Voz Ferroviario, desde La Paz, Bolivia" – V. by letter – **F.PL.:** 10 kW tr.
12) Santa Cruz – 13) Soc. Compania de Jesus, La Paz.
14) Comercio 386, La Paz – 15) Tarija – 16) La Paz.
17) Potosi – 18) Sucre – 19) La Paz.

Medium Waves:
20) **R. San Gabriel,** Casilla 1071, La Paz – **L.P.:** Dir. Gen.: B. Ryan. Dir. Tec.: D. Pruss – **D. PRGR.:** 11.00–12.30, 15.00–17.00, 20.30–01.00 – **V.** by letter or QSL-card.
21) **R. San Rafael,** Cas. 546, Cochabamba. **Te.:** 2885 – **L.P.:** Dir. Gen.: Rev. L. J. Sommer, MM. Dir. Tec.: H. Cosio – **D. PRGR.:** 10.00–03.00. **N.:** 11.30, 16.45, 23.00, 02.00. **N. in Quechua:** 23.30. **L.L.** (Spanish): 11.00, 23.05 – **ANN.:** "Transmite CP68, R. San Rafael, La Voz Católica de Cochabamba" – **F.PL.:** 1 kW.
22) **R. Mendez,** Pasaje Belle Vista 212, La Paz – **D. PRGR.:** 12.15–13.00, 14.30–18.00, 22.00–02.30.
23) **La Voz Minera,** Comando Movimiento Nacionalista Revolucionario Telemayo (Dep. Potosi) – 24) **R. Potosi,** Sucre 79, Potosi – **D. PRGR.:** 13.00–15.00, 16.00–20.00, 00.30–03.00.
25) **La Voz del Ferroviario,** Uyuni – 26) **R. Tunari,** Cochabamba.
27) **R. Universidad,** Universidad Tecnica, Oruro.
28) **R. Splendid,** La Paz – 29) **R. Los Andes,** Tarija.
30) **R. Amboro,** Santa Cruz – 31) **Emisoras Unidas,** La Paz.
32) **R. Oruro,** Oruro – **D. PRGR.:** 14.00–19.00, 21.00–03.00.
33) **R. Cultura,** Cochabamba – 34) **R. Mercurio,** Oruro.
35) **R. Nacional,** La Paz – 36) **R. Cochabamba,** Cochabamba.
37) **R. Nueva America,** Junin 660, La Paz – **D. PRGR.:** 11.00–14.00, 16.00–18.00, 22.00–04.00 – 38) **R. Litoral,** Cochabamba.
39) **La Voz Nacional,** Tarija – 40) **La Voz Catolica de Cinti,** Camargo.

BRAZIL

L.T.: Eastern (Coastal): GMT÷3 h. Western: GMT÷4 h Acre: GMT÷5 h – **Pr. L.:** Portuguese.
STATIONS: Short Waves: *)=inactive.

	Call	kc	m	kW	Name and h of tr.
1)		2270	132.1		R. Educadora de Limeira
1a)	ZY	2350	127.6		R. do Amazonas, Manaus
2)		2360	127.6	0.25	R. Cultura do Nordeste, Caruaru: 08.00–04.00
3)	ZYB-	2360	127.1	1	R. Parintins
4)		*2370	126.6		R. Cl. Fluminense, São João de Meriti
5)	ZYV71	2390	125.5	0.5	R. Por um Mundo Melhor, Gov. Valadares: 09.00–14.15, 18.00–02.00
6)	ZYR-	*2390	125.5	0.5	R. Cultura de Monte Alto, Jaboticabal
7)		2410	124.1	1	R. Sirena, Leopoldina: W 11.00–14.00, 20.55–24.00, Sun 11.00–14.00
8)	ZYW32	2420	124.0	1	R. Carajá de Anapolis: 09.00–03.00
9)		2420	124.0	0.5	R. São Carlos: 09.00–03.00
10)	ZYF-	2420	124.0	0.25	R. Carolina
11)	ZYR231	2450	122.5	0.5	R. Cultura de Aracatuba: 09.00–03.00
12)	ZYR99	2460	122.0	0.5	R. Cacique de Sorocaba: 09.00–03.00
13)	ZYR62	3255	92.17	0.5	R. Cl. de Marilia: 09.00–04.00
14)	ZYR79	3265	91.87	4	R. Ribeirão Preto: 21.00–04.00
15)	ZYK21	3265	91.87	1	R. Tamandaré, Recife: 09.00–03.00
16)	ZYR31	3275	91.60	1	Bauru R. Clube: 09.00–04.00
17)	ZYR89	3285	91.32	1	R. Aparecida: 09.00–03.00
18)	ZYH31	3305	90.77	1	R. Educadora do Cariri, Crato: 09.00–17.00, 20.00–02.30
19)	ZYV63	3315	90.50	1	R. Itatiaia, B. Horizonte: 10.00–03.00
20)	ZYR220	3325	90.23	0.1	R. Dif. Hora Certa, Guarulhos
21)	ZYJ21	3325	90.23	1	R. Borborema, Campina Grande: 08.25–03.15
22)	ZYR59	3335	89.95	0.5	R. Pres. Prudente: 10.00–04.00
23)		*3335	89.95	1/10	R. Marajoara, Belem
24)	ZYV30	3355	89.42	0.5	R. Dif. Uberlandia: 09.30–04.00
25)	ZYS44	3365	89.15	0.5	R. Dif. do Parana, Londrina: 24 h
26)	ZYK28	3375	88.88	1	R. Olinda de Pernambuco, Recife: 08.45–03.00
27)		3385	88.63		R. Clube de Teresina
28)		3385	88.63	1	R. Eldorado, São Paulo
29)	ZYF24	4710	63.69	5	R. Dif. do Maranhão, São Luis: 08.30–11.00, 13.00–16.00, 19.00–02.00
30)	ZYV3	4755	63.09	1	R. Brasil, Campinas: 09.00–04.00
31)	ZYN37	4765	62.96	1	R. Soc. Feira de Santana: 09.00–14.00, 17.00–03.00
32)	ZYR81	4775	62.84	5	R. Progreso de São Paulo: 09.00–02.00
33)	ZYH29	4775	62.84	5	R. Dragão do Mar, Fortaleza: 08.30–03.00
34)	ZYV20	4785	62.70	1	R. Dif. de Guaporé, Porto Velho: 12.00–02.30
35)	ZYM8	4785	62.70	0.5	R. Ribamar, São Luis: 09.00–02.00
36)		4795	62.57		R. Pioneira, Fortaleza
37)	PRI4	4795	62.57	2	R. Tabajara, João Pessoa
1)	ZYS8	4805	62.43	5	R. Dif. do Amazonas, Manaus: 10.00–17.00, 19.00–03.05
38)	ZYP33	4815	62.31	1	Petropolis R. Dif.: 10.30–03.00
39)	ZYH27	4815	62.31	1	R. Icarema de Fortaleza: 08.00–03.00
40)	ZYV56	4825	62.18	0.5	R. Cl. de Varginha: 11.00–01.00
41)	ZYE7	4825	62.18	0.5	R. Educadora de Parnaiba: 14.00–16.00, 21.30–01.00
42)	ZYV37	4835	62.05	0.5	R. Soc. Triangulo Mineiro, Uberaba: 10.00–02.30
43)		*4835	62.05	1	R. Dif. Roraima, Boa Vista
27)	ZYU8	4845	61.92	0.5	R. Dif. de Teresina: 08.30–02.00
44)	ZYR61	4855	61.79	1	R. Dif. Taubaté: 09.00–03.00
45)	PRC5	4865	61.66	2.5	R. Cl. do Para, Belem: 08.30–12.00, 15.00–03.30
46)	ZYZ30	4875	61.54	5	R. Jornal do Brazil, Rio de Janeiro: 09.00–04.00
47)	ZYD9	4885	61.41	1	R. Dif. Rio Branco: W 21.00–01.30, Sun 19.45–01.30
48)	ZYV50	4885	61.41	5	R. Cultura de Pocos de Caldas: 09.00–03.00
49)	ZYB22	4895	61.29	2.5	R. Baré, Manaus: 09.00–17.30 20.30–02.30
50)	ZYN22	4895	61.29	1	R. Cultura da Bahia, Salvador
51)	ZYZ22	4905	61.16	5	R. Relógio Federal, Rio de Janeiro: 07.00–04.00
52)	ZYR60	4915	61.04	1	R. Cultura de Araraquara: 08.00–03.00
53)	ZYE2	4915	61.04	2	R. Dif. de Macapa: 09.45–17.30, 20.00–01.00
54)	ZYL-	4915	61.04	1	Emis. Rio São Francisco, Alagoas
55)	ZYV32	4925	60.90	1	R. Industrial de Juiz de Fora: 09.00–03.00
56)	ZYI21	4935	60.80	1	R. Poti, Natal: 08.00–12.00, 14.00–16.00, 20.00(Sun 08.00)–03.00
57)	ZYO25	4945	60.67	1	R. Capixaba, Vitoria: 09.00–03.00
58)	ZYF22	4945	60.67	0.25	R. Dif. Mearim, Caxias
59)	ZYE23	4945	60.67	1	R. Educadora de Bragança: W 08.30–12.00, 19.00–02.00, Sun 08.30–02.00
60)	PRF7	4955	60.54	2	R. Cultura de Campos: 08.30–03.00
61)	ZYV9	4975	60.30	2.5	R. Timbira, São Luis: 09.00–02.00
62)	ZYP27	4975	60.30	1	R. Copacabana, Rio de Janeiro: 09.00–03.00
63)	ZYZ5	4985	60.18	1.5	A Voz de Oeste, Cuiaba: 09.00–02.30
64)	ZYY2	4995	60.06	1	R. Brazil Central, Goiania: 08.00–04.00
65)	ZYX24	5025	59.70	1	R. Dif. de Aquidauana
66)	ZYW22	5035	59.58	1	R. Anhanguera, Goiania: 08.55–04.00
67)		5035	59.58	0.5	R. Espirito Santo, Vitoria: 09.00–03.00
68)	ZYP23	5045	59.46	10	R. Rio de Janeiro: 10.00–03.00
69)		5045	59.46	1	R. Quitandinha, Petropolis
70)	ZYO23	5055	59.35	2	R. Vitoria: 10.00–02.00
71)	ZYR226	5955	50.38	10	R. Gazeta, São Paulo: 11.00–17.00, 21.00–04.00
72)	ZYU60	5965	50.28	7.5	R. Guiaba, Porto Alegre: 09.00–21.00
73)	ZYT44	5975	50.21	10	R. Guaruja, Florianópolis: 09.00–02.30
74)	PRL5	*5990	50.08	7.5	R. Ministerio da Educação e Cultura, Rio
75)	PRK5	6000	50.00	5	R. Inconfidencia, Belo Horizonte: 08.30–04.00
76)	PRA8	6015	49.88	5	R. Cl. de Pernambuco, Recife: 09.00–03.00
77)	ZYR63	6025	49.79	10	R. Emis. Piratininga, São Paulo: 08.25–01.30
78)	ZYZ26	6035	49.71	10	R. Globo, Rio de Janeiro: 09.00–03.00
79)	ZYS33	6045	49.63	7.5	R. Cl. Paranaense, Curitiba: 09.00–03.43
80)	PRB21	6055	49.55	10	R. Panamericana, São Paulo: 08.00–05.00
81)	ZYZ31	*6065	49.46	7.5	R. Rural Brasileira, Rio de Janerio
82)		6065	49.46	10	R. Nacional Brasilia: 10.00–04.10
83)	ZYK2	6085	49.30	15	R. Jornal do Comércio, Recife: 09.00–02.20
84)	ZYB7	6095	49.22	25	R. Dif. de São Paulo: 09.00–03.05
85)	ZYN6	6105	49.14	5	Ceará R. Clube, Fortaleza: 21.00–04.00
86)	ZYC7	6115	49.06	100	R. Tupi, Rio de Janeiro: 08.45–03.35

Brazil

	Call	kc	m	kW	Name and h of tr.
87)	PRG9	6125	48.98	7.5	R. Nac. de São Paulo: 08.30–05.00
88)	PRC21	6135	48.90	7.5	R. Soc. Gaucha, Porto Alegre: 09.00–03.00
89)	PRL9	6145	48.82	50	R. Nac. Rio de Janeiro: 07.50–04.10
90)	ZYR58	6165	48.66	7.5	R. Cultura, São Paulo: 09.00–02.30
91)		6175	48.58	10	R. Guarani, Belo Horizonte: 09.00–04.00
92)	ZYR77	6185	48.50	10	R. Bandeirantes, São Paulo: 08.00–03.00
93)	PRD21	6195	48.43	10	Emis. Continental, Rio
94)	ZYP30	7045	42.58	5	R. Imperial, Petropolis: 09.00–15.00, 21.00–03.00
95)	PSL	7935	37.81	20	Agencia Nacional, Brasilia: W 22.30–23.00
96)	PRN9	*9295	32.28	2.5	R. Dif. do D.E.S.P., Rio de Janeiro
80)	PRB22	9505	31.56	10	R. Record, São Paulo: 08.00–05.00
97)	PRD5	*9515	31.53	1	R. Roquete Pinto, Rio de Janeiro
98)	ZYS43	9545	31.43	7.5	R. Emis. Paranaense, Curitiba: 09.00–21.00
83)	ZYK3	*9565	31.57	15	R. Jornal do Comércio, Recife
99)	ZYZ27	9575	31.33	10	R. Mayrink Veiga; Rio de Janeiro: 09.00–03.30
100)	ZYR56	9585	31.30	7.5	R. Excelsior, São Paulo: 09.00–04.00
50)	ZYN29	*9595	31.27	10	R. Cultura da Bahia, Salvador
86)	ZYC8	9610	31.22	10	R. Tupi, Rio de Janeiro: 08.45–03.35
101)	ZYR96	9620	31.19	10	R. 9 de Julho, São Paulo: 08.00–21.00
17)	ZYR83	9635	31.14	7.5	R. Aparecida: 09.00–03.00
48)	ZYV40	9645	31.10	7.5	R. Cultura de Pocos de Caldas: 09.00–22.00
82)		9665	31.04	10	R. Nacional, Brasilia: 10.00–04.10
102)	ZYT29	9675	31.01	10	R. Diario da Manhã, Florianópolis: 09.00–03.00
71)	ZYR227	9685	30.98	10	R. Gazeta, São Paulo: 15.00–03.00
103)	ZYB22	9695	30.94	7.5	R. Rio Mar, Manaus: 09.30–12.00, 14.30–18.00, 21.00–01.00
104)	ZYZ24	9705	30.91	10	Fundação R. Maua, Rio de Janeiro: 08.00–03.15
89)	PRL7	9720	30.86	50	R. Nac. Rio de Janeiro: 07.50–04.10
105)	ZYU59	9730	30.83	7.5	R. Soc. Farroupilha, Porto Alegre: 23.00–04.00
90)	ZYR57	9745	30.79	7.5	R. Cultura, São Paulo: 09.00–02.30
74)	PRL4	9770	30.71	1	R. Ministerio da Educação e Cultura, Rio: 09.00–04.00
64)	ZYW23	9775	30.69	7.5	R. Brasil Central, Goiania: 08.00–04.00
95)	PSH	10220	29.35	20	Agencia Nacional, Brasilia: N. 22.30–23.00
82)		11720	25.60	10	R. Nacional Brasilia: 10.00–04.10
106)	ZYW28	11735	25.56	7.5	R. Cl. de Goiania: 09.00–04.00
77)	ZYR65	*11745	25.54	10	R. Emis. Piratininga, São Paulo
99)	ZYZ28	11755	25.52	10	R. Mayrink Veiga, Rio de Janeiro: 09.00–03.30
84)	ZYB8	11765	25.50	25	R. Tupi de São Paulo: 09.00–03.00
72)	ZYU61	11785	25.46	7.5	R. Guaiba, Porto Alegre: 21.00–04.00
89)		11795	25.43	10	R. Nacional, Rio de Janeiro: 07.50–04.10
78)	ZYZ36	11805	25.41	10	R. Globo, Rio de Janeiro: 09.00–03.00
64)	ZYW24	11815	25.39	7.5	R. Brasil Central, Goiania: 08.00–22.00
83)	ZYK32	*11825	25.37	15	R. Jornal do Comércio
76)	PRA8	11865	25.28	7.5	R. Cl. de Pernambuco, Recife: 09.00–03.00
107)	ZYN32	*11875	25.26	10	R. Soc. da Bahia, Salvador
88)	PRC20	11915	25.18	7.5	R. Soc. Gaucha, Porto Alegre: 09.00–03.00
92)	ZYR78	11925	25.16	10	R. Bandeirantes, São Paulo: 08.00–03.00
79)	ZYS35	*11935	25.14	7.5	R. Cl. Paranaense, Curitiba
74)	PRL3	11950	25.10	7.5	R. Ministerio da Educação e Cultura, Rio: 09.00–04.00
80)	PRB23	11965	25.07	10	R. Record, São Paulo: 08.00–05.00
95)	PSF	14690	20.45	20	Agencia Nacional, Brasilia: W 22.30–23.00
81)	ZYZ32	15105	19.86	7.5	R. Rural Brasileira, Rio de Janeiro: 09.00–02.00
108)		*15115	19.85	7.5	R. Soc. Guairaca, Curitiba
107)	ZYN31	*15125	19.83	10	R. Soc. da Bahia, Salvador
80)	PRB24	15135	19.82	10	R. Panamericana, São Paulo: 08.00–05.00
83)	ZYK33	15145	19.81	15	R. Jornal do Comércio, Recife: 09.00–02.20
84)	ZYB9	15155	19.80	25	R. Dif. de São Paulo: 09.00–20.30
85)	ZYN7	*15165	19.78	5	Ceará R. Clube, Fortaleza
75)	PRK9	*15190	19.75	5	R. Inconfidencia, Belo Horizonte
61)	ZYV9	*15215	19.71	2.5	R. Timbira, São Luis
50)	ZYN30	*15225	19.70	10	R. Cultura da Bahia, Salvador
23)	ZYE21	15245	19.68	1/10	R. Marajoara, Belem
87)	PRG9	*15265	19.66	10	R. Nac. de São Paulo
89)	PRL8	15295	19.62	10	R. Nacional, Rio de Janeiro: 07.50–04.10
71)	ZYR228	*15325	19.58	10	R. Gazeta, São Paulo
105)	ZYU60	15335	19.56	7.5	R. Soc. Farroupilha, Porto Alegre: 08.00–04.00
86)	ZYC9	15370	19.52	10	R. Tupi, Rio de Janeiro: 08.45–03.35
109)	ZYR206	15415	19.46	1	R. Cl. de Ribeirão Preto: 09.00–13.00, 19.00–03.00
82)		15445	19.43	10	R. Nacional, Brasilia: 10.00–04.10
101)	ZYR97	*17705	16.94	10	R. 9 de Julho, São Paulo
110)	ZYR232	17725	16.93	1	R. Universitaria Santos Dumont, São Jose dos Campos: 23.00–02.00
1)		*17795	16.86	5	R. Dif. do Amazonas, Manaus
90)		17815	16.84	10	R. Cultura, São Paulo: 09.00–02.30
89)	PRL9	*17850	16.81	10	R. Nac. Rio de Janeiro
74)	PRL2	17875	16.79	7.5	Ministerio da Educação, Rio: 09.00–04.00

Medium Waves: °=Short Waves ¹=also FM.

	Call	kc	kW
101)	ZYR98	°540¹	10
28)	ZYZ22	°550¹	10
111)	ZYN4	560	1/0.25
108)	ZYM5	°560	10
112)	PRG5	580	1/0.5
113)	ZYM3	580	1/0.5
114)	ZYM25	580¹	1/0.5
51)	ZYZ21	°590¹	5/1
115)	ZYS50	590	1/0.5
105)	PRH9	°600¹	50
80)	PRH7	°620¹	10/5
116)		620	10
117)	ZYX25	630	10
118)	ZYV44	630	1
119)	ZYA3	630	1
120)	PRJ6	630	1
19)	ZYV29	°630¹	5
121)	ZYG29	630	5/0.25
122)	ZYU37	630	1
123)	ZYM6	630	1
124)	ZYR219	640	1/0.25
125)	PRG6	640	1/0.5
126)	ZYI21	640	1
98)	ZYS47	640	1
127)	PRF9	640	10/5
128)	ZYM22	670	10
100)	ZYR56	°670¹	10
29)	ZYF23	°680	5
129)	ZYD7	680	5
130)	ZYK26	680	1
131)	ZYS65	680	1
62)	ZYP20	°680¹	5
88)	PRC2	°680¹	10/5
132)	ZYR55	690	1/0.1
33)	ZYH29	°690	10
133)	PRC7	690¹	25/10
25)	ZYS45	°690	0.25
134)	ZYU83	690	1
135)	ZYW3	690	1
28)		700	50
44)	ZYA8	°720¹	1
76)	PRA8	°720	0.25
72)	ZYU58	°720¹	10
70)	ZYO21	°730	1
109)	PRA7	°730¹	1
136)	ZYW53	730	1
137)	ZYO9	730	1/0.25
138)	ZYR80	730	2.5
139)	ZYH8	730	1
107)	PRA4	°740¹	50
96)	PRN9	°760	2
83)	PRL6	°780	20
94)	ZYP30	°780	1
14)	ZYR79	°780	0.25/0.1
74)	PRA2	°800¹	25
140)	ZYA4	820	1/0.25
141)		820	1
92)	PRH9	°840¹	10/5
142)	ZYD8	840	10/5
143)	ZYT33	840	1
144)	PRA3	860¹	50
75)	PR13	°880¹	50
145)	ZYU33	880	10
71)	PRA6	°890¹	7.5
15)	ZYK20	°890¹	20
146)	ZYI23	900	10
86)	PRB7	900¹	5
147)	PRJ3	930	5
148)	ZYT3	930	5/0.25
149)	ZYM20	930	5
150)	ZYH3	930	5/0.25
46)	PRF4	°940	50
84)	PRF5	°960¹	10/5
151)	ZYO4	960	10
152)	ZYF5	960	1/0.25
31)	ZYR3	°970¹	1
153)	ZYH32	970	1
154)	ZYI26	970	1
155)	ZYI2	970	5
89)	PRE8	°980¹	50
80)	PRB9	°1000¹	50
156)	PRB3	1010	2/0.5
102)	ZYT26	°1010	10
157)		1020	20
158)	PRB8	1030	1/0.25
26)	ZYK27	°1030¹	5
93)	PRD8	°1030	7.5
159)	PRG2	1040	50
160)	PRD2	1060	10
161)	PRB7	1080	1/0.5
162)	ZYN24	1080	1/0.5
103)	ZYV47	1080¹	1/0.25
164)	ZYB4	1080	1/0.5
165)	ZYX7	1080	1/0.25
166)	ZYE4	1080	1/0.5
167)	ZYU67	1080¹	2/0.5
13)	PRI2	°1090	1
55)	ZYT9	°1090	1
168)	ZYT38	1090¹	1/0.25
169)	ZYN25	1090	1
170)	ZYI25	1090	1
87)	PRG9	°1100¹	50
171)	ZYU50	1100¹	1/0.25
37)	PRI4	°1100¹	10
60)	PRF7	°1110¹	5
172)	ZYT25	1110	1/0.25
173)	ZYS67	1110	1/0.25
50)	ZYN20	°1120¹	10
174)		1120	20
104)	PRH8	°1130	25
23)	ZYE20	°1130¹	10
175)	ZYI24	1130	1
176)	ZYU77	1130	1/0.25
177)	ZYT34	1130	1/0.25
178)	ZYK34	1130	1
179)	ZYR217	1130¹	5
180)	ZYH7	1160	1/0.25
67)	PRI9	°1160	10

	Call	kc	kW
63)	PRH3	°1160	1
181)	PRF5	1160	1
182)	ZYA5	1160	1
183)	PRC9	1170[1]	5
184)	ZYI20	1170	1
185)	ZYU72	1170	1/0.25
186)	ZYU38	1170	1/0.25
78)	PRE3	°1180[1]	50
77)	PRB6	°1200	10
85)	PRE9	°1200	10
82)		°1210	10/1
16)	PRG8	°1210	1
184)	ZYL9	1210	1/0.5
40)	ZYB2	°1210	1
98)	ZYZ9	°1210	1
99)	PRA9	°1220[1]	50
1)	ZYB21	°1240	5
188)	ZYC4	1240	1/0.5
189)	ZYT43	1240	0.1
190)	ZYP4	1240	1/0.5
191)	PRB5	1240	1
192)	ZYU76	1240	1/0.25
12)	ZYR43	°1250	0.1
193)	PRJ2	1250	1/0.5
194)	ZYO3	1250	1
195)	PRA5	1260[1]	10/5
196)		1260	10
64)	ZYK9	°1270[1]	10
30)	ZYR39	°1270[1]	0.25
197)	ZYS23	1270	1/0.25
198)	ZYV62	1270	1
199)	ZYU44	1270	1
56)	ZYB5	°1270[1]	1
86)	PRG3	°1280[1]	50
90)	PRE4	°1300[1]	10/5
39)	ZYR7	°1300[1]	10
200)	ZYX22	1300	1
201)	ZYR201	1320	1
106)	ZYG3	°1320[1]	10
68)	ZYZ34	°1320[1]	10/5
202)	PRH4	1320	1/0.5
203)	ZYT31	1320	1/0.25
11)	PRI8	°1330	1
65)	ZYX20	°1330	0.25
204)	ZYV33	1330	1/0.5
205)	ZYI5	1330	1/0.5
206)	PRC4	1330	1/0.5
207)	ZYR49	1340	1
91)	PRH6	°1340[1]	25
208)	ZYX2	1340	1
209)	ZYX5	1340	1/0.25
48)	PRH5	°1350	5
21)	ZYO7	°1350[1]	1
210)	PRC8	1360[1]	10
211)	ZYH25	1360	10
52)	PRD4	°1370[1]	1
57)	ZYO22	°1370	1
212)	ZYK31	1370[1]	5
66)	ZYW21	°1370	1
27)	ZYQ3	°1370	1
213)	ZYF3	1370	5
42)	PRE5	°1390	1/0.25
214)	ZYS46	1390	1
215)	ZYJ2	1390	1/0.5
18)	ZYH30	°1400	5
97)	PRD5	°1400	10/5
35)	ZYF21	°1410	1
216)	PRF7	1410[1]	25/10
217)	ZYH26	1410	10
218)	ZYI4	1420	1/0.25
45)	PRC5	°1450[1]	10
73)	ZYJ7	°1420[1]	5
27)	—	°1430	
219)	PRE2	1430	10/5
220)	ZYH5	1430	1
221)	ZYT39	1430	1/0.25
20)	ZYR207	°1440[1]	0.1
79)	PRB2	°1440[1]	20
222)	ZYX–	1440	1/0.1
19)	ZYV62	1440	1
223)	PRB4	1450	5/2
224)	ZYJ20	1450	1
225)	ZYP36	1450	5/0.25
226)		1450	1/0.25
47)	ZYD9	°1460	0.25
39)	ZYH22	1460	1
53)	ZYE2	°1460	0.25
227)	ZYF20	1460	0.25
228)	PRH2	1460	20
229)	ZYS34	1460	0.25
230)	ZYE3	1470	1/5
231)	ZYD2	1470	1/0.5
24)	PRC6	°1470[1]	1/0.5
232)	ZYZ6	1470	1
41)	PRJ4	°1470	0.5
233)	ZYN3	1470	1/0.5
8)	ZYJ3	°1480	0.5
49)	ZYS20	°1480[1]	10
103)	ZYB20	°1480[1]	1
234)	ZYH	1480	1
38)	PRD3	°1480	5
59)	ZYE22	°1480	0.25
61)	PRJ9	°1490	2.5
235)	ZYA2	1490	0.1
236)	ZYU–	1490	0.1
54)	ZYL–	°1490	0.25
237)	ZYI	1512	1
238)	ZYK9	1530	1
239)	ZYS9	1540	1/0.1
240)		1540	25
4)	ZYP39	°1550[1]	0.25
5)	ZYV64	°1550[1]	0.25
2)	ZYK30	°1560[1]	1
241)	ZYN33	1560	1
242)	ZYP26	1560	1
243)	ZYU23	1570[1]	1/0.1
244)	ZYS56	1570	10
245)	ZYO3	1580	1/0.5
9)	ZYA6	°1590	0.25
246)	ZYJ4	1600	0.1
17)	ZYR44	°1600	0.1

States-Abbreviations: AM=Amazonas, BA=Bahia, CE=Ceará, ER=Estado do Rio, ES=Espirito Santo, GO=Goias, MA=Maranhão, MG=Minas Gerais, MT=Mato Grosso, PB=Paraiba, PE=Pernambuco, PI=Piaui, PR=Parana, RB=Rio Branco, RD=Rondónia, RGN=Rio Grande do Norte, RGS=Rio Grande do Sul, SC=Santa Catarina, SE=Sergipe, SP=São Paulo.

Short Waves:

1) Rua Joaquim Sarmento 100, Manaus, AM (2350 kc: Itacoatiana).
2) Edif. Sao José, Garuaru, PE – **D. PRGR.:** 08.55–04.00. **N.:** every h on the h – **ANN.:** ZYK-30, Radio Cultura do Nordeste, onda media de 1560 kc, Caruaru, Pernambuco" – V. by letter. Re. in P, Sp. Prgr. schedule free on request – 3) Parintins, AM.
4) Rue Manuel Francisco da Rosa 84, San João de Mariti, RJ.
5) C.P. 377, Governador Valadares, MG – **L.P.:** Dir. Gen.: Rev. P. H. van der Feesten. Dir. Tec.: M. M. Emery – **D. PRGR.:** m.w. 09.00–02.00. **N.:** 09.45, 11.00, 14.45, 15.55, 22.00, 23.25, 01.05 – **ANN.:** "R. Por Um Mundo Melhor" – V. by letter. Re. in P, F, E, G, D, Sp, or I – Prgr. schedule free on request – 6) Jaboticabal, Sp.
7) C.P. 6, Leopoldina, MG. **Cable:** Sirena – **D. PRGR.:** **N.:** 13.55, 23.55 – **ANN.:** R. Sirena, do Sistema Radioeducativo Nacional, do Ministerio da Educação e Cultura" – V. by letter. Re. in P. E, or Sp, Prgr. schedule free on request.
8) Praça Bom Jesus 313, Anápolis, GO – **ANN.:** "Através de suas emissoras de ondas médias e curtas está transmitindo a R. Carajá, de Anápolis, Brasil".
9) C.P. 11, São Carlos, SP – **L.P.:** Pres.: G. Rossi – V. by letter.
10) Carolina, MA.
11) C.P. 246, Aracatuba, SP. **Te.:** 2270 – **L.P.:** Dir. Gen.: J. Baptista Brussolo – **D. PRGR.:** **N.:** 13.15, 22.00 – **Japanese:** 12.00–12.30 – **ANN.:** "Emissora brasileiras da R. Cultura de Aracatuba PRI8, 1330 kc, ondas médias e ZYR231, 2450 kc ondas tropicais" – V. by letter – 12) Rue Miranda Azevedo 311, Sorocaba, SP.
13) Rua Paes Leme 20, Marilia, SP – **L.P.:** Dir. Gen.: O. Lignelli – **D. PRGR.:** **Japanese:** 23.00–24.00.
14) C.P. 814, Ribeirão Preto, SP – 15) Av. Cruz Cabuga 394, Recife, PE – 16) C.P. 8782, São Paulo – **L.P.:** Dir. Sw.-Dept. G. Perolo – **D. PRGR.:** **Japanese:** 23.00–00.15 – V. by QSL-card. Re. in P, Sp, E, F, Rp. for airmail.
17) Praça NS Aparecida 315, Aparecida. **Te.:** 2197 – **L.P.:** Dir. Gen.: Rev. R. L. Galvão – **ANN.:** R. Aparecida, capital espiritual do país" – V. by letter. Re. in P, E, Sp, G, F or I. Rp. Prgr. schedule free on request.
18) Rua Cel Antonio Luiz 68, Crato, CE – **L.P.:** Pres.: V. P. Araujo.
19) Rua Coromandel 117, Belo Horizonte. **Te.:** 43385 – **L.P.:** Dir. Gen.: J. Carneiro. Dir. Tec.: J. Soares – **ANN.:** "R. Itatiaia, a emissora Brazileira que mais cresce" – V. by letter. Rp.
20) Guarulhos, SP – **D. PRGR.:** **Japanese:** 15.00–16.00.
21) C.P. 160, Campina Grande, PB – **ANN.:** "R. Borborema, Emissoras Associadas de Campina Grande" – V. by letter. Re. in E, F, Sp, I, P – Prgr. schedule on request.
22) C.P. 5, Pres. Prudente, SP – **L.P.:** Dir. Gen.: A. Campos – **D. PRGR.:** **Japanese:** 12.00–12.30 – **ANN.:** "R. Presidente Prudente uma da Emissoras Coligadas, falando para todo o Brasil" or "PRI5 e ZYR59, R. Difusora de Presidente Prudente, uma das Emissoras Coligadas, transmitindo simultâneamente em ondas médias e curtas 1240 kc, onda de 242.5 mts. e 3335 kc onda de 89 mts".
23) C.P. 491, Belém, Para – **L.P.:** Dir.: F. Barata.
24) C.P. 173, Uberlandia, MG – V. by letter.
25) C.P. 1870, Londrina, PR – **P.L.:** Dir. Gen.: Dr. R. Zanoni – **D. PRGR.:** **Japanese:** 23.00–23.30.
26) C.P. 1313, Recife, PE – **D. PRGR.:** 1030 kc: 08.45–06.00 – **ANN.:** "R. Olinda, a emissora da familia pernambucana".
27) C.P. 125, Teresina, PI – **L.P.:** Dir. Gen.: W. S. Guimaraes.
28) Av. Pres. Vargas 417A, Rio de Janeiro – **D. PRGR.:** mw. 10.00–04.00 – 29) C.P. 152, São Luiz, MA – V. by letter.
30) C.P. 625, Campinas, SP – **L.P.:** Dir. Gen.: S. Pedroso – **D. PRGR.:** **Japanese:** 09.00–10.00, 20.15–20.45 – **ANN.:** "ZYV3 – R. Brasil de Campinas – ZYR39 – R. de Valinhos emissoras brasilieras da Organização Irmãos Pedroso" – V. by letter.
31) C.P. 32, Feira de Santana. **Te.:** 168 – **L.P.:** Dir.: J. M. de Araujo Freitas. Dir. Tec.: D. Nogueira. Dir. School Prgr's F. H. de Castorano Capuchinho – **D. PRGR.:** mw. 09.00–03.00 – **N.:** in **English:** Mo, Thurs, 23.00 (4765 kc only) – "Escolas Radiofonicas": D 21.30–24.00 on 4765 kc – **Wrp.:** D 22.00 – **ANN.:** "ZYR3, ZYN37 R. Sociedade de Feira de Santana, Ondas medias e Curtas" – **INT.-SIG.:** Gong – V. by letter – **F.PL.:** 5 kW st. at Salvador (R. 2de Julho) on 1300 kc, 4 st's in the state of Bahia.
32) Av. Liberdade 1034, São Paulo. **Te.:** 32-8708 – **L.P.:** Dir. Gen.: C. Mero. Dir. Tec.: L. C. Esher.
33) Rua P. Pereira 383, Fortaleza CE – **L.P.:** Dir. Gen.: M. S. Pimentel, – **D. PRGR.:** Jornal das Tres Americas (News in Sp, E, P): 02.23–02.36 – N. in Portuguese: W 14.50, D 01.35 – **ANN.:** "R. Dragão do Mar, a emissora do Ceará que o mundo escuta" – V. by letter.
34) Av. Ferquar, Guaporé, Porto Velho, RD – V. by letter or QSL-card – 35) Rua do Apium 118–130, São Luiz, MA – 36) Cambuquire.
37) Rua Rodriguez de Aquino s/n, João Pessoa, PB – **D. PRGR.:** **N.:** 21.45, 24.00, 01.35 – **ANN.:** "PRI4, R. Tabajara da Paraiba transmitindo em ondas curtas e medias" – V. by letter. Re. in E, Sp, F.
38) Praça D. Pedro II°, 17, Petropolis, ER. **Cable:** Difusora – **L.P.:** Dir. Gen.: W. C. Malta – **D. PRGR.:** **N.:** 16.00, 23.25, 01.05, 02.45 – **ANN.:** "Emissoras de ondas médias e curtas da Petropolis R. Difusora, o microfone lider do Estado do Rio" – V. by letter.
39) C.P. 578, Fortaleza, CE – **L.P.:** Dir. Gen.: F. B. Barreto.
40) C.P. 102, Varginha, MG – **L.P.:** Dir. Gen.: F. Sousa Moraes – **D. PRGR.:** **N.:** 14.15, 21.15 – **ANN.:** "Emissoras de Varginha, ZYB-2 e ZYV-56, em ondas curtas e médias" – V. by letter. Re. in P, Sp, E.
41) C.P. 31, Parnaiba, PI – V. by letter.
42) Rua Major Eustaquio 13, Uberaba, MG – 43) Boa Vista, RB.
44) Rua Visconde do Rio Branco 247, Taubaté, SP. **Te.:** 302 – **L.P.:** Dir. Gen.: E. A. Beringhs – **D. PRGR.:** **N.:** 08.30. **ANN.:** "Emissoras Brasileiras da R. Difusora Taubaté, ondas médias e curtas, São Paulo, Brasil" – V. by QSL-card. Re. in E, Sp, P or F.
45) Av. Pres. Vargas 145, Belém PA. **Te.:** 3263 – **L.P.:** Dir. Gen.: E. Proença. Dir. Tec.: M. Franco – **D.PRGR.:** mw. 08.30–03.30 – **N.:** 10.00, 11.30, 15.25, 20.55, 22.00, 23.30, 02.55 – **ANN.:** "PRC5 R. Clube do Pará, Belém, Brasil – a voz que fala e canta para a planicie" – V. by letter.
46) Av. Rio Branco 110, Rio de Janeiro – **L.P.:** Dir.: M. F. Brito – **ANN.:** "R. Jornal do Brasil, Musica e Informacão".

Brazil

47) Rua Benjamin Constant, Rio Branco, Acre.
48) C.P. 143, Pocos de Caldas, MG – V. by letter or QSL-card.
49) Av. Eduardo Ribeiro 566, Manaus, AM.
50) Av. 7 de Setembro 311, Salvador. **Cable:** Radicultura. **Te.:** 8880 – **L.P.:** Pres.: J. J. de Carvalho – V. by letter or QSL-card.
51) Av. Pres. Vargas 417-A, Rio de Janeiro – **D.PRGR.:** mw: 24 h – **ANN.:** "Ouvem a R. Relogio Federal do Rio de Janeiro, a emissora lider a hora exata" or "R. Relogio Federal, proporcionando, minuto a minuto, a hora certa do Observatorio Nacional".
52) C.P. 22, Araraquara, SP. **Te.:** 2828 – **D.PRGR.:** N.: 12.00 – **ANN.:** "Emissoras da R. Cultura Araraquara PRD4, ZYR60, PRD4-FM" – V. by letter. Re. in P, E, Sp. Prgr.-schedule free on request.
53) Av. Candido Mendes, Macapá, Amapá – **L.P.:** Dir. Gen.: M. Q. da Silva. Dir. Tec.: I. A. Veras – **D.PRGR.:** N.: every h on the h and W 21.30 – V. by letter – **F.PL.:** 10 kW sw. in 1963.
54) Penedo, Alagoas.
55) Praça João Pessôa 9, Juiz de Fora, MG – **L.P.:** Dir. Gen.: Dr. S. Vieira Mendes – **D.PRGR.:** N.: 12.00, 15.10, 20.00, 22.30, 00.30 – **ANN.:** "Emissoras Brasileiras de ondas curtas e médias da R. Industrial de Juiz de Fora, Estado de Minas Gerais, uma das Componentes do Organização Sergio Mendes, a serviço do Brasil" – V. by letter. Re. in P, F, E, I, G, or R. Prgr.schedule on request.
56) Av. Rio Branco 325, Natal, RGN. **Te.:** 1205 – **L.P.:** Dir. Gen.: L. M. Alves – **D.PRGR.:** mw. 08.00–03.00 – **"A Voz de Natal"** (Typical Brazilian music) D 02.30–03.00 (Ann. in P, E, F) – V. by letter. Re. in E, F, or Sp.
57) Esc. Estiva 4° and., Vitória, ES – **ANN.:** "Estaçoes de ondas médias e curtas R. Capixaba, Vitória, Brasil" – 58) Caxias, MA.
59) Praça da Bandeiras, Bragança. **Te.:** 112 – **D.PRGR.:** N.: 09.55, 10.55, 11.55, 19.55, 24.00 – **ANN.:** "R. Educadora de Bragança ZYE22, ZYE23 ondas médias e tropical.., a Emissora Católica da familia paraense" – V. by letter. Re. in P.
60) C.P. 79, Campos, ER. **Te.:** 1582 – **L.P.:** Dir. Gen.: M. F. Sampaio – **D.PRGR.:** N.: 09.00, 10.00, 10.30, 13.00, 14.30, 16.00, 18.00, 22.00, 01.30 – **ANN.:** "PRF7 R. Cultura de Campos de Campos, pioneira, e lider do estado do Rio de Janeiro".
61) Rua Osvaldo Cruz 28, São Luiz, MA.
62) Av. Rio Branco 277, 6° andar, Rio de Janeiro – **L.P.:** Dir. Gen.: A. de Lima Santana – **D.PRGR.:** **English:** Sun 00.00, **Spanish:** Sat 23.00 – **ANN.:** "R. Copacabana, a emissora do Otimismo".
63) C.P. 126, Cuiaba, MT – **L.P.:** Dir. J. Oliveira – **D.PRGR.:** **Japanese:** 23.30.
64) C.P. 330, Goiania, GO – **L.P.:** Dir.: O. Barbosa – V. by QSL-card or letter – 65) Aquidauana, MT.
66) Av. Anhanguera 92, Goiania, GO – **ANN.:** "R. Anhanguera, a emissora lider do povo Goiano" – V. by letter.
67) C.P. 809, Vitória, ES – **L.P.:** Dir. of Broadc.: H. Blachman.
68) Av. Rio Branco 277, Rio de Janeiro.
69) Rua México 111, Rio de Janeiro - V. by letter.
70) C.P. 700, Vitória, ES – **L.P.:** Dir. J. Cavalcanti - **ANN.:** "Ouvem a R. Vitória, da capital do Espírito Santo, Brasil" - V. by letter.
71) Av. Cásper Libero 88, 2° andar, São Paulo. **Te.:** 355151 – **L.P.:** Dir. Gen.: J. F. Ferreira Jorge. Dir. of Broadc.: H. Carvalho de Castro – **D.PRGR.:** N.: 15.00, 19.00, 01.30, also every h on the h – **ANN.:** "PRA6, R. Gazeta a Emissora de Elite" – **INT.-SIG.:** First movement of "Concert in B" by Tjaikowsky – V. by letter. Re. in P, E, F, Sp. Prgr.schedule on request.
72) Rua Caldas Jr. 219, Porto Alegre, RGS – **L.P.:** Dir. Gen.: A. Pasqualini. Mgr.: F. A. Gomes. Dir. Tec.: Dr. P. Milano. Dir. For. Rel. J. Nunes – **ANN.:** "Emissoras da R. Guaiba de Porto Alegre, RGS – **F.PL.:** mw. 50 kW.
73) C.P. 45, Florianopolis, SC – **L.P.:** Dir.: C. Bonetti – V. by QSL-card.
74) Praça da Republica 141-A, Rio, GB. (Owned & operated by **The Federal Government. Ministry of Education)** – **L.P.:** Dir. Gen.: M. Miranda. Mgr.: L. G. Borges. Dir. Tec.: A. M. Costa. Dir. For. Rel.: E. L. Duarte – **D. PRGR.:** **"Musica Brasileira"** Mo-Thurs 19.30–20.30 on 11950/17875 kc with ann. in German (Mo), English (Tues), French (Wed), Spanish (Thurs) – **L.L.:** (on 800 kc): Mo, Wed, Fri 22.00 Portuguese, 22.30 English, 23.00 Spanish. Tues, Thurs, Sat: 22.00 French – **Nat. Prgr.:** Mo, Wed, Fri 23.30 – **Geography:** Tues, Thurs, Sat 22.30 – **Mathematics:** Tues, Thurs, Sat 23.00 – **History:** Tues, Thurs, Sat 23.30 – **ANN.:** "R. Ministerio da Educação e Cultura, transmitindo pela Cultura dos que vivem em nossa tena, pelo progresso do Brasil" – V. by letter.
75) C.P. 1027, Belo Horizonte, MG. **Te.:** 21589 – **L.P.:** Dir. Gen.: M. A. Andrade – **D. PRGR.:** N.: 11.00, 16.00, 22.00, 01.00 – **ANN.:** "Aqui Falam PRI3, PRK5 Emissoras de ondas curtas e médias da R. Inconfidência Belo Horizonte, Minas Gerais, Brasil" – **INT.-SIG.:** Gong – V. by QSL-card or letter Re. in E – 76) Av. Cruz Cabuga 394, Recife, PE – **ANN.:** "R. Clube de Pernambuco, a pioneira" – V. by QSL-card.
77) C. P. 8087, São Paulo. **Te.:** 334175 – **L.P.:** Dir. M. Louzzi Jr. – **D. PRGR.:** mw.: 24 h **Japanese:** 23.00–24.00 – V. by QSL-card.
78) Rua Ireneu Marinho 35, Rio de Janeiro – **L.P.:** Dir. Gen.: R. Marinho. Dir. Tec.: L. A. de Medeiros – **D. PRGR.:** N.: Every h on the h to 03.00 – **ANN.:** "Radio Globo do Rio de Janeiro, uma emissora de "O GLOBO", o maior jornal do Pais" – V. by QSL-card. Re. in P, Sp, E, F.
79) C.P. 448, Curitiba, PR – V. by letter.
80) Rua Riachuelo 295, São Paulo (PRH7/PRB21/PRB24), Rua Quintino Bocaiuva 22, São Paulo (PRE9/PRB22/PRB23) – **D. PRGR.:** 1000 kc 24 h. **Japanese:** 09.00–09.30 – **ANN.:** PRH7: "R. Panamericana, a emissora dos emissora dos esportes". PRE9: R. Record, São Paulo, Brasil".
81) Ministério da Agricultura, Largo da Misericordia 4° andar, Rio de Janeiro – **L.P.:** Dir.: J. Anastácio Vieira – **ANN.:** "R. Rural, Emissora do Agricultor do Ministerio da Agricultura, Rio de Janeiro, Brasil" – V. by QSL-card. Re. in P, Sp, E, F, Sw.
82) C.P. 442, Brasilia, DF.
83) Rua Marquez do Recife, PE – **L.P.:** Dir. Gen.: Dr. F. Pessoa de Queiros – **D. PRGR.:** mw.: 07.55–04.00. **English:** "Brasil Calling" D 01.05–01.30 – **ANN.:** **P.:** "R. Jornal do Comércio Recife, Pernambuco ondas médias e curtas" or "Emissoras da R. Jornal do Comércio, Pernambuco a voz mais potente do Brasil". **E.:** "Pernambuco speaking to the world. This is Brazil Calling" – V. by QSL-card.
84) C.P. 252 & 4142, São Paulo – **L.P.:** Dir. Gen.: A. Oliveira. Dir. Tec.: J. Tavares Couto – **Te.:** 34-4181 - **D. PRGR.:** **Japanese:** 10.11–11.10 – V. by QSL-card or letter – 85) C.P. 222, Fortaleza – V. by letter.
86) Av. Venezuela 43, Rio de Janeiro – **L.P.:** Dir. Gen.: Dr. J. de Medeiros Calmon – **ANN.:** "R. Tupi do Rio de Janeiro, o Cacique do Ar" – V. by letter.
87) Rua das Palmeiras 322, São Paulo. **Te.:** 513398 - **L.P.:** Dir Gen.: V. Costa Jr. Mgr.: Dr. J. M. Araujo. Dir. Tec.: Dr. G. Rabenhorst - **ANN.:** "PRG9, R. Nacional, São Paulo, Brasil" – V. by QSL-card and letter – **F.PL.:** 150 kW on mw.
88) C.P. 1164, Porto Alegre. **Cable:** Pioneira – V. by QSL-card.
89) Praça Maua 7, 19–22° andar, Rio de Janeiro. **Te.:** 438850 – **L.P.:** Dir. Gen.: H. Domingues. Dir.: M. Aréas. Dir. Tec.: J. Nobrega – **D. PRGR.:** mw. 24 h. N.: W 09.05, 11.00, 13.00, 15.55, 16.50 (Sat only), 17.00*, 18.00*, 19.00*, 20.30*, 22.00, 23.25, 01.05, 04.00. Sun 09.05, 15.55, 21.00, 23.35. *)not Sat – **ANN.:** "Ouvem R. Nacional, Rio de Janeiro, Brasil, por suas emissoras de ondas curtas, médias e frequência modulada" – **INT.-SIG.:** First movement of the Brazilian musical poem "Luar do Sertão" – V. by QSL-card.
90) Rua 7 de Abril 230, São Paulo – **L.P.:** Dir. Gen.: Emonteiro **D. PRGR.:** mw.: 09.00–05.00. **Japanese:** 09.00–11.00, 15.00–16.00, 21.30–22.00, 23.00-01.00 on 1300/6165 kc (these prgr.'s produced in cooperation with JOOR, Osaka) – **ANN.:** "PRE4, R. Cultura de São Paulo, transmitiendo em ondas médias, curtas e frequência modulada".
91) Rua Goiás 36, Belo Horizonte, MG – **L.P.:** Dir. Gen.: F. Chateaubriand.
92) Rua Paula Souza 181, São Paulo. **Te.:** 22-1132 – **L.P.:** Pres.: J. Jorge Saad – **D. PRGR.:** mw.: 24 h – **ANN.:** "R. Bandeirantes de São Paulo, transmitindo simultaneamente pelas suas estaçoes: PRH9, ondas médias 840 kc ZYR77, ondas curtas 6185 kc, ZYR78, ondas curtas 11925 kc – a mais popular Emissora Paulista" – **INT.-SIG.:** Vibraphone and organ – V. by QSL-card or letter.
93) Rua Riachuelo 48, Rio de Janeiro. **Te.:** 52-8021 – **L.P.:** Dir. Gen.: C. B. Carneiro da Cunha – **D. PRGR.:** mw.: 10.00–04.00. sw.: Mo-Fri 14.30–16.00, 19.00–03.00. Sat 14.30–03.00, Sun 11.00–03.00. **N.:** Every h on the h – **ANN.:** "Emissora Continental, estacão-chave da organização Rubens Berardo, cem por cento esportiva e informativa" – V. by letter. Re. in P, Sp, E, F.
94) C.P. 225, Petropolis ER - **L.P.:** Dir. Gen.: A. M. Torres. Mgr.: J. C. Salles. Dir. Tec.: C. C. de Abreu – **D. PRGR.:** mw.: 09.00–03.00 **Panorama Social:** D 00.00–00.30 – **T.S.:** every half h – **ANN.:** "R.. Imperial 780 kc, melhor som, melhor programação" – V. by letter.
95) Brasilia, DF (**Go., operated by the Ministry of Justice and Interior)** – **D. PRGR.:** W 22.30–23.00 "A Voz do Brasil" relayed by all st.'s – V. by letter – 96) Rua Relação de Janeiro.
97) Av. Erasmo Braga 118, Rio de Janeiro – **L.P.:** Dir. Gen.: A. de Almeira Queiros – **D. PRGR.:** mw.: 10.00–03.00 – **ANN.:** "R. Roquette Pinto, Emissora da Prefeitura do Distrito Federal".
98) C.P. 471, Curitiba, PR. **Te.:** 41393 – **L.P.:** Dir. Gen.: Dr. N. Chede. Dir. Tec.: O. Leining – **D. PRGR.:** mw.: 09.00–03.00 **Japanese:** 11.15–12.00. **ZYS47 R. Curitibana:** 09.00–02.00 – **ANN.:** "Emissoras de ondas curtas, médias et frequencia modulada da R. Emissora Paranaense. Curitiba, Parana, Brasil" – "ZYS47, R. Curitibana 640 kc – V. by letter and QSL-card. Re. in Sp, P, I, E, F, G.
99) Rua Mayrink Veiga 15, Rio de Janeiro. **Te.:** 235991 – **L.P.:** Dir. Gen.: W. G. Morrissy – **D. PRGR.:** mw.: 24 h – **ANN.:** "Transmite a R. Mayrink Veiga do Rio de Janeiro, PRA9 onda media, ZYZ27 e ZYZ28 ondas curtas" – V. by QSL-card. Rp. Re. in P, E, F, Sp.
100) Rua das Palmeiras 322, São Paulo – **D. PRGR.:** Jap: 09.00–09.45.
101) Rua Wenceslau Braz. 78, São Paulo. **Te.:** 33-32.46 – **L.P.:** Dir. Dr. A. Zioni – **D. PRGR.:** **Japanese:** 09.30–10.00, 19.00–20.00, 22.00–22.30. **N. in Portuguese:** Every half h – **ANN.:** "R. Nove de Julho de São Paulo, Brasil" – V. by QSL-card or letter.
102) C.P. 331, Florianopolis, SC – **L.P.:** Dir. Gen.: Dr. P. K. Bornhausen – **ANN.:** "Emissraos brasileiras de onda média e curta da R. Diario da Manhã, de Florianópolis, Santa Catarina", or "Estaçoes de Florianópolis da R. Diario da Manhã" – V. by QSL-card.

103) Av. Epaminondas 555, Manaus, AM – **L.P.**: Dir. Gen.: C. Hamu – **D. PRGR.**: mw.: 09.30–04.30. N.: 10.00 and every h from 11.30 to 23.30, 01.30, 02.30 – **ANN.**: "ZYB20 e ZYB22, Emisoras da R. Rio Mar de Manaus, Brasil" – **V.** by letter. Re. in P, E, Sp.
104) Ministerio do Trabalho, Rio de Janeiro – **ANN.**: "Escutam a R. Maua, a emissora do trabalhador".
105) C.P. 908, Porto Alegre, RGS – **L.P.**: Dir. Gen.: F. Peres. Dir. Tec.: R. dos Santos – **D. PRGR.**: mw.: 09.00–04.00 **N.**: 10.30, 11.00, 12.00, 12.30, 13.00, 13.30, 14.00, 14.30, 16.00, 17.00, 17.30, 18.00, 19.00, 19.30, 20.00, 20.30, 20.55, 22.00, 00.00, 00.30, 01.00, 01.30, 01.40, 03.00, 03.30, 03.55 – **ANN.**: "R. Farroupilha, Porto Alegre, Brasil" – **V.** by letter. Re. in P, E, Sp. Prgr. on request.
106) C.P. 62, Goias, GO – **Te.**: 4042 – **L.P.**: Dir. Gen.: Dr. E. Braga Sobrinho. Dir. Tec.: T. Rotoli – **D. PRGR.**: **N.**: 10.15, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.20, 02.00 – **ANN.**: "Sintonizam R. Clube de Coiânia – Rêde Nacional de Emissôras Associadas, Goiás falando para o Brazil" – **V.** by letter. Re. to C.P. 62, Goiânia. Rp.
107) Rua Portugal 6, 2° andar, Salvador, BA.
108) C.P. 1053, Curitiba, PR – **D. PRGR.**: mw.: 09.00–04.00.
109) C.P. 18, Ribeirão Preto, SP – **L.P.**: Dir. Gen.: J. da Silva Bueno – **ANN.**: "PRA7, R. Clube de Ribeirão Preto, onda média de 730 kc e ZYR206, onda curta de 15415 kc".
110) R.U.S.D. – I.T.A., São José dos Campos, SP. Te.: 450 – **L.P.**: Dir. Gen.: A. Tyla. Dir. Tec.: L. Oranje. – **D. PRGR.**: **N.**: 23.25, 23.55, 00.25, 00.55. **English:** Mo 24.00: "A View of Brazil" – **ANN.**: "Ondas Curtas, 16 metros, ZYR 232, RUSD – R. Universitaria Santos Dumont, a primeira emissora genuinamente universitaria do Brasil" – **V.** by letter – **F.PL.**: FM 1 kW.

Medium Waves:

111) **R. Soc. Passos**, Passos, MG – 112) **Soc. R. Atlântica**, C.P. 7, Santos, SP.
113) **R. Cataguazes**, Cataguazes, MG – 114) **R. Londrina**, C.P. 444, Londrina, PR – **D. PRGR.**: **Japanese:** 09.45–10.15.
115) **R. Ouro Verde**, Rua Monsenhor Celso 211, Curitiba, PR.
116) **R. Assuncão Cearense**, Fortaleza, CE – 117) **R. Bom Jesus de Cuiaba**, CP 91, Cuiaba, MT – **V.** by letter.
118) **R. Triangulina**, Uberaba, MG.
119) **R. de Cambarã**, C.P. 78, Cambarã, PR.
120) **R. de Sergipe**, C.P. 6, Aracuja, SE – 121) **R. Itatiaia**, Nova Lima.
122) **R. Santanariense**, Rua Venancio Aires, Santa Maria, RGS.
123) **R. Mirador**, C.P. 61, Rio do Sul, RGS – **D. PRGR.**: 10.30–01.30.
124) **R. A Voz da Araraquarense**, Araraquara, SP.
125) **R. Mantiqueira**, C.P. 62, Cruzeiro, SP.
126) R. Cabugi, Av. Rio Branco 729, Natal, RGN – 08.55–02.00 –
127) **R. Portoalegrense**, Porto Alegre – 128) **R. Cultura**, C.P. 81, Aracaju, SE – **D. PRGR.**: 09.00–03.00 – **V.** by letter – 129) **R. Soc. Norte de Minas**, C.P. 56, Montes Claros, Mg.
130) **R. de Limoeiro**, C.P. 11, Limoeiro, PR – **D. PRGR.**: 09.00–01.35.
131) **R. Ponta Grossa**, Av. Vicente Machado 521, Ponta Grossa, PR. 09.00–03.00 – 132) **Soc. R. Casique**, Santos – 133) R. Mineira, Rua Goiás, Belo Horizonte, MG.
134) **R. Progreso di Ijui**, C.P. 73, Ijui, RGS – **D. PRGR.**: 09.00–03.00.
135) **R. Cl. de Lages**, C.P. 60, Lages, SC – **D. PRGR.**: 09.00–03.00.
136) **R. de Minas Gerais**, Juiz de Fora – 137) **Soc. R. Tubá**, Tubarao.
138) **R. Hora Certa Santo Amaro**, Praça da Liberdade 71, São Paulo – **D. PRGR.**: 09.00–03.00. **Japanese:** 10.00–11.00, 15.00–17.00.
139) **R. Marumby**, C.P. 934, Curitiga, PR – **D. PRGR.**: 08.00–03.00.
140) **R. Paraisense**, S. Seb. do Paraiso – 141) **R. Universidade de Recife**, Recife.
142) **R. Excelsior da Bahia**, Rua Guedes de Brito 14-A, Salvador, BA – **D. PRGR.**: 10.00–03.00 – 143) **R. Rural de Concordia**, Edif. Alvorada, Concordia, SC. 09.00–01.00.
144) **R. Mundial**, Av. Rio Branco 181, 3° andar, Rio de Janeiro – **D. PRGR.**: 09.00–03.00(Sun 04.00).
145) **R. Itai**, Rua Andrades 1155, Porto Alegre, RGS – **D. PRGR.**: 09.00–03.55 – 146) **R. Nordeste**, Rua João Pessoa 86, Natal, RGN.
147) **R. Araguari**, Araguari, MG – 148) **R. Araranguá**, Araranguá, SC.
149) **R. Libertade de Sergipe**, Aracaju – 150) **R. Cultura de Sao Vicente**, Sao Vicente.
151) **R. de Alagoas**, Maceio, Alagoas.
152) **Emis. Reunidas R. Cultura**, Passo Rundo, RGS.
153) **R. Educ. do Nordeste**, Sobral, CE – 09.00–01.30 – 154) **R. Brejui**, Rua Pres. João Pessoa 26, Currais Novos, RGN. 12.00–20.00 – 155) **R. Imembui**, Rua Venancio Aires 1980, Santa Maria, RGS – 09.00–03.00.
156) **R. Soc. de Juiz de Fora**, Av. Rio Branco 1906, Juiz de Fora, MG.
157) **R. Campos Gerais**, Curitiba, PR.
158) **R. Rio Preto**, José do Rio Preto – 159) **R. Tupá**, São Paulo.
160) **Soc. R. Emis. Metropolitana**, Rua Richuelo 48, Rio de Janeiro – 09.00–03.00. **Japanese:** 23.00–23.45 – 161) **R. Cl. de Sorocaba**, C.P. I, Sorocaba.
162) **R. Cultura Peira de Santana**, Peira de Santana, BA.
163) **R. Minas**, Av. Afonso Pena 867, 14° andar, Belo Horizonte, MG.
164) **R. Cl. de Patos**, Patos de Minas – 165) **R. Teófilo Otoni**, Teófilo Otoni.
166) **R. Soc de Friburgo**, Praça Getulio Vargas 74, Nova Friburgo, ER – **D. PRGR.**: 11.00–16.00, 18.00–01.00.
167) **R. Universidade do Rio Grande do Sul**, Porto Alegre, RGS.
168) **R. Colon**, Joinville, SC – 169) **R. Cl. de Conquista**, Vitoria da Conquista, BA.
170) **R. Educacao Rural**, Praça Pio X 335, Natal, RGN – **D. PRGR.**: 08.45–02.00 – 171) **R. Emis. do Nordeste**, Flores da Cunha, RGS.
172) **R.Anita Garibaldi**, Rua João Pinto 32, Florianopolis, SC.
173) **R. Tapajos**, Av. João Pessoa 40, Curitiba, PR – **D. PRGR.**: 09.00–03.00 – 174) **R. Belo Horizonte**, Belo Horizonte, MG.
175) **Mossoro R. Soc.**, Praça Rafael Fernandes 8, Mossoró, RGN.
176) **R. Cultura de Gravatai**, Rua Coronal Vicente 456, Porto Alegre.
177) **Soc. R. Vale do Itaiai**, Rua 15 de Novembre 343, 2° andar, Blumenau, SC – **D. PRGR.**: 11.00–03.00.
178) **R. Relogio Musical**, Rua Martias de Albuquerque 260, Recife, PE – **D. PRGR.**: Gives correct time every 3rd min. – **V.** by letter.
179) **R. Cometa**, Av. do Estado 3163, São Paulo – **L.P.**: Dir.: B. Linardi. Dir Tec.: A. Krutchenko – **D. PRGR.**: 09.00–05.00. **N. in Portuguese:** 14.00, 18.00 – **Japanese:** 09.00–11.00, 23.00–00.25 – **Spanish:** 22.00–22.30 – **English:** 23.00–23.30 – **ANN.**: "R. Cometa, a emissora que faz amigos, ZYR217 ondas medias e frequencia modulada, São Paulo, Brasil" – **V.** by QSL-card. Re. in P, E or Sp – **F.PL:** sw.-st.
180) **R. Pres. Wenceslau**, Av. Newton Prado, Pres. Prudente, SP – **D. PRGR.**: 09.00–02.00 – 181) **R. Cariri**, Campina Grande, PB.
182) **R. de Joinville**, Rua Pedro Lobo 219, Joinville, SC – 09.00–03.00 – 183) **R. Educadora de Campinas**, Rua Berreto Leme 931, Campino – **D. PRGR.**: 24 h – 184) **R. Dif. de Mossoró**, Mossoró – 185) **R. Princésa de Jacui**, Candelária – 186) **Prefeitura Municipal de Passo Pundo**, Passo Pundo – 187) **Cachoeiro de Itapemirim**, Chacoeiro de Itapermirim – 188) **R. Soc. Ubaense**, Ubá, MG.
189) **R. Cultura**, Joinville – 190) **R. Emis. Guarapuava**, Guarapuava – 191) **R. Cl. Herts**, Franca – 192) **R. Emis. Riograndense**, Pelotas – 193) **R. Cl. Pontagrossense**, Ponta Grossa, PR.
194) **R. Chavantes**, Praça da Liberdade 15, Ipameri, GO – **D. PRGR.**: 10.00–01.00 – 195) **R. São Paulo**, Av. Angélica 430, São Paulo.
196) **R. Cultura do Piaui**, Teresina, Piaui – 197) **R. Cultura de Maringa**, CP 76, Maringa, PR – **D. PRGR.**: **Japanese:** 08.30 – 198) **R. Carijos**, Rua Afonso Pena 273, Conselheiro Lafaiete, MG – **D. PRGR.**: 10.30–02.00.
199) **R. Cl. Metropole**, Prés. Roosevelt 1406, Porto Alegre, RGS – **D. PRGR.**: 24 h – 200) **R. Cultura de Cuiaba**, Cuiaba, MT.
201) **R. Dirceu de Marilia**, CP 730, Marilia, SP – 10.00–03.00.
202) **R. Cultura de Pelotas**, Pelotas – 203) **R. Herval do Oeste**, Herval d'Oeste – 204) **R. Diamantiense**, Diamantina, MG.
205) **R. Itajubá**, Praça Adolfo Olinto 19, Itajubá – 206) **R. Cl. de Blumenau**, Blumenau.
207) **R. Cultura de Monte Alto**, Monte Alto, SP – **D. PRGR.**: **Japanese:** 11.00, 16.00 – 208) **R. Arapuan**, João Pessoa, Paraiba.
209) **R. Soc.Oeste Catarinense**, Chapecó, SC.
210) **R. Guanabara**, Av. 13 de Maio, Rio de Janeiro. 10.00–03.00.
211) **R. Uirapuru de Fortaleza**, Fortaleza, SC – **F.PL.**: sw.-tx.
212) **R. Continental**, Recife, PE – **D. PRGR.**: 08.30–03.30 – **ANN.**: "R. Continental do Recife" – **V.** by QSL-card and letter.
213) **R. Caxias do Sul**, Caxias, RGS – **D. PRGR.**: 09.00–03.25.
214) **R. Tingui**, Piraquara, PR – 215) **R. Sul Fluminense**, Av. Joaquim Leite 465, Parra Mansa, ER – **D. PRGR.**: 10.00–03.00.
216) **R. América**, Rua do Consolacão 116, São Paulo, SP – **D. PRGR.**: **Japanese:** 08.30–09.00 – 217) **R. Verdes Mares**, Fortaleza, CE – **D. PRGR.**: 09.00–04.00 – **V.** by letter – 218) **R. Imbiará de Araxá**, Araxá, MG.
219) **R. Vera Cruz**, Rua Buenos Aires 168, Rio de Janeiro – **D. PRGR.**: 10.00–03.00 – **V.** by letter.
220) **R. Cl. de Tupa**, C.P. 39, Tupa, SP – **D. PRGR.**: 09.00–02.00. **Japanese:** 22.00–22.30, 23.00–23.30.
221) **R. Cultura de Campos Novos**, C.P. 3, Campos Novos, SC – **D. PRGR.**: 10.00–20.00, 20.55–02.00 – 222) **R. Imprensa**, Campo Grande – 223) **R. Cl. de Santos**, Santos, SP – 224) **R. Caturité**, Campina Grande – 225) **R. Campos Dif.**, C.P. 79, Campos ER.
226) **R. Coroado**, C.P. 33, Curitibanos, SC – **D. PRGR.**: 11.00–01.00.
227) **R. Dif. Mearim**, Caxias, MA – 228) **R. Cl. de Rio Claro**, Rio Claro, SP.
229) **R. Central do Paraná**, C.P. 590, Ponta Grossa, PR – **D. PRGR.**: 09.30–02.00 – 230) **R. Emis. Convencão de Itu**, Itu, SP.
231) **R. Soc. Muriaé**, Muriaé, MG – 232) **R. Espinhara de Patos**, Patos, PB.
233) **R. Progresso**, Novo Hamburgo – 234) **R. Arararipe**, Rua Nelson Alencar 90, Crato.
235) **R. Dif. Matogrossense**, Av. 13 de Junho 899, Corumbá, MG.
236) **R. Soc. Canguçuense**, Canguçu – 237) **R. Piracununga**, 3, Piracununga, São Paulo.
238) **R. Dif. Itajai**, C.P. 122, Itajai, SC – **D. PRGR.**: 09.00–03.00.
239) **R. Novo Horizonte**, Novo Horizonte, SP.
240) **R. Nordeste**, Nova Cruz RGN – 241) **R. Educadora**, Santo Amaro, BA.
242) **R. Emis. de Volta Redonda**, Bairro do Laranjal, Volta Redonha,

RJ – **D. PRGR.**: 10.30–02.30 – 243) **Soc. Emis. Minuaro,** Rio Grande – 244) **R. Jornal de Maringa,** Maringa, PR – 245) **R. Chavantes,** Ipameri, GO – 246) **R. Dif. de Amparo,** Amparo, SP.

CHILE

L.T.: GMT÷4 h – **Pr. L.**: Spanish.

ASOCIACION DE RADIODIFUSORAS DE CHILE

ADDR.: Casilla 10476, Santiago de Chile. **Cable**: Archi. **Te.**: 34509 **L.P.**: Pres.: E. Sánchez Matte. Mgr.: J. Menadier Carrasco.

STATIONS: All st.'s are comm. exc. 9), 59), 80) (Cultural) – **Sw.**: Call letters CE are used for all zones – **Mw.**: Call letters CA, CB, CC and CD indicate: A=No. Zone, B=Central Zone, C=So. Zone and D=Antarctic Zone. The figures indicate the frequency in kc minus one cipher, f. inst. CB82=Central Zone 820 kc – Abbrev.: Soc.=Sociedad, Nac.=Nacional.

Short Waves: *) inactive.

Call	kc	m	kW	Name	h of tr.
1) CE600	6000	50.00		R. El Carbon, Lota	
2) CE601	6010	49.92	1	R. Norte, Antofagasta	11.00–04.00
3) CE602	6020	49.83	1	Diego Portales, Santiago	11.00–05.00
4) CE604	6040	49.67	5	R. Libertad, Antofagasta	11.00–04.00
5) CE607	6070	49.42	5	Soc. Nac. de Mineria, Santiago	11.00–05.30
6) CE610	6100	49.18	0.25	R. Calama	11.00–04.00
7) CE611	6110	49.10	5	Soc. Nac. de Agricultura, Santiago	11.00–05.00
8) —	*6130	48.94	1	R. El Morro, Arica	
9) CE613	6130	48.94	1	R. Universidad de Concepción	12.00–04.00
10) CE615	6150	48.78	5	La Voz de Chile, Valparaiso	11.00–04.30
11) CE619	6190	48.47	5	Corp. Chilena Broadc., Santiago	11.25–05.00
11) CE950	*9500	31.58	5	Corp. Chilena Broadc.	
12) CE960	9600	31.25	10	R. Pres. Balmaceda, Santiago	10.45–06.00
13) CE965	9650	31.09	1	R. Yungay, Santiago	11.30–06.30
10) CE970	9700	30.93	10	La Voz de Chile, Santiago	11.00–04.30
14) CE1174	11740	25.55	5	R. Nuevo Mundo, Santiago	11.00–04.30
7) CE1180	11800	25.42	1	Soc. Nac. de Agricult.	11.00–05.00
15) CE1185	11850	25.32	2	R. Cruz del Sur, Santiago	11.00–04.00
10) CE1190	11900	25.21	5	La Voz de Chile, Valparaiso	11.00–04.30
5) CE1196	11960	25.08	2	Soc. Nac. de Mineria	11.00–05.30
5) CE1511	*15110	19.85	5	Soc. Nac. de Mineria	
11) CE1515	15155	19.80	10	Corp. Chilena Broadc.	11.25–05.00

Call	kc	kW	Call	kc	kW	Call	kc	kW
16) CB54	540	1	40) CC90	900	0.1	2) CA127	°1270	1
7) CB57	°570	15	41) CD90	900		64) CC127	1270	0.25
3) CB59	590	50	14) CB93	°930	20	65) CD127	1270	1
17) CC59	590	1	42) CA96	960	0.3	12) CB130	°1300	1
18) CB62	620	2	43) CC96	960		66) CB132	1320	1
19) CA63	630	0.25	44) CD96	960	3.0	67) CD132	1320	1
20) CB63	630	1	45) CB97	970	1	68) CC133	1330	0.15
21) CD63	630	1	46) CC97	970		69) CB134	1340	1
22) CA64	640	0.5	47) CD97	970		70) CD134	1340	0.15
23) CB64	640	1	13) CB101	°1010	1	71) CA135	1350	0.25
24) CC64	640	1	48) CD101	1010	1	72) CC135	1350	0.25
25) CB66	660	12	49) CB103	1030	1	73) CD136	1360	1
26) CC67	670		50) CD103	1030	10	74) CB136	1360	0.5
5) CB68	680	1	5) CB106	°1060	100	75) CD137	1370	1
27) CC68	680	0.5	51) CA108	1080	1	15) CB138	°1380	2.5
28) CB69	690	1	3) CC108	°1080	1	6) CA139	°1390	1
29) CD69	690	1.2	52) CA109	1090	0.25	76) CC140	1400	
30) CA70	700	0.25	53) CC109	1090	1	77) CA141	1410	
10) CB73	°730	10	54) CB111	1110	1	78) CB141	1410	1
10) CB76	°760	75	55) CC111	1110	0.1	79) CC141	1410	1
31) CB78	780	1	56) CD111	1110	1.25	80) CB143	1430	0.25
32) CA82	820	0.5	11) CB114	°1140	50	81) CC143	1430	0.1
33) CB82	820	1	57) CB116	1160	10	82) CC144	1440	1
34) CD82	820	1	58) CC116	1160	1.5	83) CC145	1450	
35) CB84	840	1	3) CB118	1180	50	84) CD145	1450	2.5
36) CC84	840	0.8	59) CB120	1200	1	85) CB146	1460	0.1
37) CD84	840	1	60) CA121	1210	0.25	86) CD146	1460	0.25
38) CB89	890	1	7) CD121	1210	10	87) CA147	1470	0.1
39) CD89	890	1	61) CB124	1240	0.25	88) CB147	1470	0.25
9) CC89	°890	1	62) CC125	1250	1	89) CC147	1470	0.25
4) CA90	°900	1	8) CA126	°1260	10	90) CC148	1480	0.25
7) CB90	900	1	63) CB126	1260	1	91) CB149	1490	
92) CB150	1500	0.5	95) CB153	1530	0.25	98) CB156	1560	1
93) CA152	1520	0.5	96) CB154	1540	0.25	1) CC157	°1570	
94) CC152	1520	0.25	97) CC155	1550		99) CB160	1600	

FM: 11(89.3 Mc – 100) 91.7 Mc – 101) 92.9 Mc – 14) 93 Mc – 9) 95.1 Mc – 28) 97.1 Mc 0.25 kW.

Short Waves:

1) Cas. 66, Lota – **L.P.**: Mgr.: N. Mosciatti.

2) Cas. 556, Antofagasta. **Te.**: 383 – **L.P.**: Mgr. M. Urrea.

3) CC108/CE602: Cas. 111, Talca. CB118: Augustinas 1022, Santiago. CB59: Cas. 89V, Valparaiso. **Te.**: Talca 1042, Santiago 68279, Valparaiso 56431 – **L.P.**: Dir. Gen.: A. Hasbun A. Dir. Tec.: P. del Campo B. Dir.: R. Tarud S (CB118). Dir.: N. Tarud M (CB59) – **D.PRGR.**: **N.**: 11.30 and from 12.00 every h on the h to 04.00, 04.30.

4) Cas. 457, Antofagasta – **L.P.**: Dir.: A. Cajiao.

5) CB106: Cas. 2626, Santiago. **Cable**: Radiomineria. **Te.**: 381341. CB68: Cas. 337, Viña del Mar – **L.P.**: CB106: Dir. Gen.: E. Sanchez M. Dir. Prgr.: R. Rojas R. Dir. Tec.: R. Fuentes A. CB68: Mgr.: L. Munoz – **D.PRGR.**: **N.**: 11.00, 16.40, 18.10, 01.00, 02.30 – **ANN.**: "Santiago de Chile – R. Soc. Nac. de Mineria" – **INT.-SIG.**: Gong – V. by QSL-card. Re. in E. or Sp.

6) Cas. 1, Calama – **L.P.**: Dir.: P. Vergara Keller – **D.PRGR.**: **N.**: 11.00, 12.00, 16.40, 17.30, 01.00, 02.30 – V. by QSL-card.

7) CB57: Cas. 40-D, Santiago. **Te.**: 64660. CB90: Cas. 90, Valparaiso. **Te.**: 6891. CD121: Cas. 327, Los Angeles. **Te.**: 517 – **L.P.**: CB57: Dir.: F. Echeverria M. CB90: Mgr.: J. Pincheira. Dir. Tec.: A. Urbina. **D.PRGR.**: **N.**: 11.30, 13.00, 16.00, 17.00, 17.30, 23.00 – V. by QSL-card.

8) Cas. 463, Arica – **L.P.**: Dir.: C. Nieto G. – **D.PRGR.**: 11.00–06.00 – V. by letter.

9) Cas. 2337, Concepción. **Te.**: 23207 – **L.P.**: Mgr.: H. Miller M. Dir. Tec.: O. San Martin – **D.PRGR.**: **N.**: 12.15, 17.15, 01.30 – **Wrp.**: 01.30 – **L.L.**: French 14.30, 23.30 – **ANN.**: "Transmite R. Universidad de Concepción, CC89 en Onda Larga, CE613 en Onda Corta en la Banda de 49 metros y con su equipo de Frecuencia Modulada en 95.1 megaciclos, desde la Ciudad Universitaria, Concepción, Chile – V. by QSL-card and letter. Re. in E, Sp. Prgr.sched. on request.

10) CB76: Cas. 13130, Santiago. CB73: Cas. 37 V, Valparaiso. **Cable**: Vitalradio – **AD.**: 15 min. per h – **L.P.**: CB76: Dir. Gen.: V. Tischenko. CB73: Gen. Mgr.: R. Reyes – **D.PRGR.**: **N.**: 11.30, 12.15, 13.00, 14.00, 15.00, 16.00, 16.45, 17.15, 18.00, 19.00, 20.00, 21.00, 23.00, 24.00, 01.00, 02.00, 03.00, 03.50 – **Wrp.**: 11.45, 12.15, 17.15, 01.00, 02.00 – **ANN.**: "Emisoras La Voz de Chile, Radios La Cooperativa". All st.'s transmit simultaneously: "Transmite La Cadena Radial "La Voz de Chile" por sus estaciones, Radios La Cooperativa" – **INT.-SIG.**: Gong with central theme of "Pomp and Circumstances" – V. by QSL-card and letter.

11) Cas. 244V, Santiago – **L.P.**: Dir.: S. Fernandez – **D.PRGR.**: **N.**: 12.00, 16.30, 20.00, 01.00, 04.00 – **ANN.**: "Transmitiendo CB114, R. Corporacion, Santiago de Chile, Quedese en el Canal CB114".

12) Cas. 1151, Santiago – **L.P.**: Mgr.: V. Myerholz – **D.PRGR.**: **N.**: 11.00, 17.00, 01.30, 04.30 – **INT.-SIG.**: 1 Gong with notes from "Los Copihues Rojos" – V. by QSL-card.

13) Cas. 3041, Santiago – **L.P.**: Dir.: H. Beweis – **ANN.**: "CB101 y CE766 Estaciones de Radio Yungay de la Corporacion de Radiodifusion Ltda., Santiago de Chile" – **INT.-SIG.**: First movement of the song "Donde el Azul de la Noche encuentra el Ove del Dia" – V. by letter.

14) Cas. 9255, Santiago. **Cable**: R. Nuevo Mundo. **Te.**: 382392 – **L.P.**: Dir. Gen.: J. Raggio R. Dir.: R. Olivares – **D.PRGR.**: **N.**: 11.30, 12.30, 13.00, 14.00, 15.00, 16.00, 18.00, 19.00, 20.00, 21.00, 22.00 23.00, 01.00, 03.00 – **ANN.**: "Estas son Las Emisoras Nuevo Mundo de Santiago de Chile que transmitem por CB93, CE1174 estacion de Onda Corta en la Banda de 25 metros y su equipo de FM en 93 Megaciclos" – V. by QSL-card and letter. Re. in Sp., E.

15) Plaza Bulnes 47, Santiago – **L.P.**: Mgr.: C. Poblete.

Medium Waves:

16) **R. Ignacio,** Serrano de Melipilla.

17) **R. Condor,** Ca. 486, Concepción – **D.PRGR.**: 11.00–04.00.

18) **R. La Reina,** Nueva York 25, Santiago – **L.P.**: Dir.: G. Camus.

19) **R. Esmeralda,** Cas. 209, Iquique.

20) **R. Pres. Prieto,** Cas. 37V, Valparaiso.

21) **R. Sur,** Casilla 60-D, Valdivia – **D.PRGR.**: 11.00–04.00.

22) **R. Norte Verde,** Cas. 252, Ovalla – **L.P.**: Dir.: F. Morales.

23) **R. Andrés Bello,** MacIver 142, Santiago – **L.P.**: Mgr.: J. Morris.

24) **R. El Sur,** Cas. 482, Concepción – **L.P.**: Dir.: J. Valenzuela.

25) **R. Chilena,** Cas. 10277, Santiago – **L.P.**: Dir.: E. Menchaca Salgado – **F.PL.**: 50 kW.

26) **R. El Libertador,** Riesco 165, Rancagua.

27) **R. Lautaro,** Cas. 214, Talca.

28) **R. Santiago,** Cas. 10195, Santiago – **L.P.**: Dir. Gen.: R. Vergara Santa Cruz. Dir. Tec.: P. del Campo – **D.PRGR.**: **N.**: 11.30, 12.30, 17.00, 17.30, 00.45, 01.30 – **English**: 02.30–03.00 – **F.PL.**: 10 kW.

29) **R. La Frontera,** Cas. 516, Temuco.

30) **R. Coya,** Maria Elena, Antolagasta, or Cas. 13260, Santiago.

31) **R. Caupolican,** Cas. 506, Valparaiso.

32) **R. Del Salitre,** Cas. 7-D, Iquique.

33) **R. Del Pacifico**, Cas. 3591, Santiago – **L.P.**: Dir.: R. Vivado & J. Quintero – **D.PRGR.**: 24 h.
34) **R. Concordia**, Cas. 119, La Union – **L.P.**: Dir.: C. Figueros.
35) **R. Recreo**, Cas. 596, Viña del Mar – **L.P.**: Mgr.: E. Godoy Donos. Dir. Tec.: J. C. Tribuzio – **D.PRGR.**: 12.00–04.00.
36) **R. Almirante Latorre**, Cas. 358, Talcahuaño.
37) **R. Sago**, Cas. 35-O, Osorno. **Cable**: Radiosago – **FI.**: By adv – **L.P.**: Mgr.: J. Kemp M. – **D.PRGR.**: 11.30–04.00.
38) **R. Bulnes**, Cas. 1555, Santiago – **L.P.**: Dir.: C. Briceño.
39) **R. Polar**, Cas. 599, Punta Arenas – **D.PRGR.**: 11.30–04.00 – **V.** by letter.
40) **R. El Roble**, Cas. 37, Parral.
41) **R. Vicente**, San Felipe 1, Puerto Montt.
42) **R. Riquelme**, Cas. 92, Coquimbo.
43) **R. Condell**, Yungay 10, Curico.
44) **R. Camilo Henriquez**, Casilla 28-A, Valdivia.
45) **R. Prat**, Cas. 10210, Santiago – **L.P.**: Dir.: P. Valenzuela – **D.PRGR.**: 11.00–05.40 – **ANN.**: "Esta es CB97 todo el dia informando".
46) **R. Interamericana**, Cas. 97, Concepcion.
47) **R. Payne**, Cas. 97, Puerto Natales.
48) **R. Llanquihue**, Cas. 356, Puerto Montt – **D.PRGR.**: 11.00–04.00.
49) **R. CB103**, Cas. 4058, Valparaiso – **L.P.**: Dir.: A. Sanchez.
50) **R. Cautin**, Cas. 169, Temuco – **L.P.**: Dir.: Nic. Kunakov.
51) **R. La Serena**, Cas. 118, La Serena.
52) **R. Toco**, Cas. 808, Antofagasta.
53) **R. Rancagua**, Cas. 21, Rancagua – **L.P.**: Dir.: J. Romero.
54) **R. Viña del Mar**, Cas. 534, Viña del Mar.
55) **R. Centenario**, Cas. 18, San Javier – **L.P.**: Dir.: M. Gaete.
56) **R. Austral**, Cas. 40-D, Punta Arenas – **L.P.**: Dir.: F. Turina.
57) **R. José Miguel Carrera**, Tenderini 115, piso 9, Santiago.
58) **R. Simon Bolivar**, Cas. 318, Concepción – **L.P.**: Dir.: A. Jaen.
59) **R. Universidad Tecnica del Estado**, Avda. Ecuador 3469, Santiago. **Te.**: 92981 – **L.P.**: Dir. Gen.: Rector H. Aravena A. Dir. Tec.: J. Arenas K. – **D.PRGR.**: 17.00–04.00. **N.**: 17.30, 02.00 – **ANN.**: "CB120 R. Universidad Tecnica del Estado".
60) **R. Atacama**, Cas. 57, Copiapo.
61) **R. Valparaiso**, Cas. 1096, Valparaiso – **L.P.**: Dir.: J. O'Shee.
62) **R. Lircay**, Cas. 450, Talca – 63) **R. Nacional**, Cas. 9987, Santiago.
64) **R. Nuble**, San Carlos.
65) **R. Patagonia Chilena**, Cas. 53, Coyhaique.
66) **R. Portena**, Cas. 887, Valparaiso.
67) **R. Baquedano**, Cas. 758, Valdavia – **L.P.**: Gen. Mgr.: C. Cockbeine – **D.PRGR.**: 12.00–18.30, 20.00–03.00 – **V.** by QSL-card.
68) **R. La Discusión**, Cas. 14-D, Chillan – **L.P.**: Dir.: A. Lagos.
69) **R. Cervantes**, Cas. 4650, Santiago – **L.P.**: G. Guzman H.
70) **R. Malleco**, Cas. 204, Victoria – **L.P.**: Dir.: G. Servanti.
71) **R. Pampa**, Maria Elena, Antofagasta.
72) **R. Minerva**, Cas. 339, Rancagua – **L.P.**: Dir.: L. Oñate J.
73) **La Voz del Sur**, Cas. 599, Punta Arenas – **D.PRGR.**: 11.30–04.00 – **V.** by letter – 74) **R. Panamericana**, Alameda 924, Santiago.
75) **R. Eleuterio Ramirez**, Cochrane 826, Osorno.
76) **R. Rengo**, Urriola 85, Rengo.
77) **R. Araucania**, Cas. 462, Concepción – **L.P.**: Dir.: R. Ariona.
78) **R. El Loa**, Cas. 439, Antofagasta – **L.P.**: Dir.: J. A. Garcia A.
79) **R. Chacabuco**, Cas. 370, Quillota – **L.P.**: Dir.: S. Giraldo.
80) **Univ. Tecnica Santa Maria**, Cas. 110-V, Valparaiso – **L.P.**: Dir. Gen.: C. Cerutti. Dir. Tec.: G. Feick – **D.PRGR.**: 01.00–02.30.
81) **R. Independencia**, Cas. 132, Molina – **L.P.**: Dir.: R. Jara G. – **D.PRGR.**: 11.00–06.00 – **V.** by QSL-card.
82) **R. El Cobre**, Cas. 125, Rancagua.
83) **R. San Carlos**, San Carlos – 84) **R. Turismo**, Puerto Varas.
85) **R. Magallanes**, Cas. 13940, Santiago – **L.P.**: Dir.: A. Benedicto.
86) **R. Arauco**, Cas. 6, Angol. – **L.P.**: Dir.: J. Abasolo.
87) **R. Estrella del Norte**, Cas. 13, Vallenar – **L.P.**: Dir.: L. Morales.
88) **R. Trasandina**, Cas. 307, Los Andes.
89) **R. Maule**, Cas. 196, Cauquenes – **L.P.**: Dir.: H. Cuadra.
90) **R. Manuel Rodriguez**, Cas. 147, San Fernando.
91) **R. Limache**, Cas. 92, Limache.
92) **R. Sudamerica**, Cas. 1346, Santiago.
93) **R. Patrio Lynch**, Vivar 489, Iquique – **L.P.**: Dir.: L. Roldán.
94) **R. Soberania**, Cas. 11-D, Linares – **L.P.**: Dir.: R. Abasolo.
95) **R. Aconcagua**, Cas. 100, San Felipe – **L.P.**: Dir.: R. Grenz.
96) **R. Cronos**, Plaza Bulnes 79, Santiago – **L.P.**: Dir.: C. Pacheco.
97) **R. Centenario**, Cas. 18, San Javier.
98) **R. Sargento Aldea**, Cas. 38, San Antonio – **L.P.**: Dir.: R. Filipi.
1) **R. El Carbon**, Cas. 66, Lota – **L.P.**: Dir.: N. Mosciatti.
99) **R. Provincial**, Cas. 73, Putaendo.
100) **R. El Conquistador**, Alameda 580, Santiago.
101) **R. Concescionario**, Cas. 259V, Valparaiso.

COLOMBIA

L.T.: GMT÷5 h – Pr. L.: Spanish.
MINISTERIO DE COMUNICACIONES, DIVISION DE TELECOMUNICACIONES

ADDR.: Bogotá.
L.P.: Dir. Gen.: A. Tapias Rocha.
STATIONS: Cultural st.'s: 1), 2), 3), 6), 85), 89), 122), 130), 153), 154), 155), 157). Other st.'s comm.
Short Waves: Call: HJ---. *=inactive.

Call	kc	m	kW	Name and h of tr.
1) GO	3250	92.31	10	R. Sutatenza, Bogota: 10.45–12.30 19.45–03.10. Sun 16.00–02.00
2) —	3290	91.90	25	R. Televisora Nacional, Bogota: 12.10 (Sun 14.00)–05.00
3) GJ	4755	63.10	2.5	Reina de Colombia, Chiquinquira
4) EF	4765	63.95	3	R. dif. Occidente, Cali: 10.45–04.35
5) FU	4795	62.54	1	La Voz del Comercio[1], Armenia: 11.00–05.00
6) AU	*4805	62.42	0.4	Universidad Antioquia, Medellin
7) HC	4825	62.25	1	R. Narino, Pasto: 12.00–05.00
8) KE	*4835	62.05	1	R. Continental[2], Bogota
9) GF	4845	61.92	1	R. Bucaramanga: 11.00–04.00
10) FN	4855	61.79	1	R. Neiva[2]: 11.00–04.35
11) FA	4865	61.66	1	La Voz de Pereira[1]: 11.00–05.00
12) BG	*4875	61.54	1	La Voz del Norte, Cucutá
13) CH	*4895	61.29	5	La Voz de la Victor, Bogota
14) AG	4900	61.22	1	Emisora Atlantico, Barranquilla: 11.30–04.00
15) LF	4935	60.81	1	Ondas de Ibaque: 11.00–04.00
16) CW	4945	60.66	5	Emisora Suramerica, Bogota: 17.00–05.00
2) CQ	4955	60.54	50	R. Televisora Nacional, Bogota: 12.10(Sun 14.00)–15.00
17) AE	4965	60.42	2.5	R. Santa Fé, Bogota: 24 h
18) CV	4985	60.18		Transmis. Independencia, Tunja
19) FW	5020	59.76	1	Transmis. Caldas[1], Manizales: 24 h
20) DW	5050	59.41	5	La Voz de Medellin[1]: 11.00–05.00
1) GC	5075	59.13	25	R. Sutatenza, Bogota: 10.45–12.30 19.45–03.15. Sun 16.00–02.00
1) CG	5095	58.88	50	R. Sutatenza, Bogota: 10.45–12.30, 19.45–03.10. Sun 16.00–02.00
22) CF	5960	50.34	1	La Voz de Bogota[2]: 11.00–05.00
23) LY	*5980	50.16	10	R. Sinfonia, Medellin
24) FQ	5997	50.03	1	La Voz del Pueblo, Pereira
18) GW	5985	50.13		Transmis. Independencia, Tunja
25) FG	*6010	49.92	2.5	La Voz de Armenia
26) FK	6010	49.92	10	La Voz Amiga, Pereira: 11.00–04.00
21) CX	6020	49.83	10	La Voz de Colombia, Bogota: 17.00–19.00, 23.00–05.00
27) LB	6040	49.67	10	La Voz del Tolima[2], Ibaque: 12.00–04.00
28) EX	6054	49.55	10	R. Pacifico[1], Cali: 11.00–05.00
2) —	*6060	49.50	10	R. Televisora Nacional, Bogota
1) GT	6075	49.38	10	R. Sutatenza, Bogota: as 5075 kc
29) NV	6105	49.14	1	R. Vision[2], Medellin: 11.00–05.00
30) NE	6115	49.06	1	R. El Sol[2], Cali: 11.00–05.00
8) KE	6125	48.98	1	R. Continental, Bogota: 13.00–04.00
31) EV	6135	48.90	1	La Voz del Valle, Cali: 12.00–05.00
32) EQ	6145	48.82	1	La Voz de Cauca, Popayan: 11.30–04.00
33) KJ	6160	48.70	10	Nueva Granada[1], Bogota: 11.00–05.00
2) CT	6185	48.50	50	R. Televisora Nacional, Bogota: 12.10(Sun 14.00)–05.00
34) EZ	6195	48.43	1	La Voz de Cali[2]: 11.00–05.00
2) —	11825	25.37	50	R. Televisora Nacional, Bogota: 21.45–05.00
2) —	15335	19.56	50	R. Televisora Nacional, Bogota: 12.00–21.30

Medium Waves: Call: HJ---. °=Short Waves. *=also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
18) GS	°560	10*	45) ED	820[3]	50*	54) DQ	1010[2]	1*
2) KA	°570	50*	29) DM	°830[2]	10*	55) CC	1010[3]	10*
2) HG	580	100*	46) BI	840	10	28) ER	°1020[1]	10*
2) HF	590	20*	47) KC	850[3]	50*	56) CJ	1040	1*
2) HJ	600	100*	48) EP	860	10*	57) DR	1040	1*
33) KL	°610[1]	25*	27) LA	°870[2]	10*	14) AH	*1050	1
35) FD	630[2]	20*	49) NW	880	30	19) FJ	°1060[1]	1*
36) KH	650	10	22) CE	°890[2]	10*	58) AZ	1060[4]	10*
37) NX	670	10	34) EY	°900[2]	10*	17) CG	°1070	10*
38) AQ	680[1]	10*	23) DO	°910	25*	59) JF	1070[2]	5*
21) CZ	°690	15*	50) AF	920[4]	10*	25) FM	°1080[2]	10*
2) HI	700	10	8) CS	°930[2]	10*	60) DZ	1080[3]	1*
39) AN	720[4]	10*	51) GB	940	10*	61) EO	1090[1]	10
40) CU	730	10*	2) HK	960	10*	62) BC	1090[3]	10*
41) DK	750[3]	50*	13) CI	°970	10*	24) FQ	°1100[2]	5*
42) AJ	760[4]	10	52) FN	970[3]	10*	63) AT	1100[3]	1*
43) HB	780[3]	10*	30) EX	°980[2]	10*	64) CN	1100[3]	1*
44) DC	790[3]	10*	20) DB	°990[1]	10*	65) NH	1100	5
1) CY	810	10*	53) AI	1010	5*	66) EW	1110[3]	1*

	Call	kc	kW		Call	kc	kW		Call	kc	kW
9)	GE	°1120	10*	95)	KZ	1270	1	6)	AU	°1410	1*
16)	CO	°1130	1*	96)	KN	1280	1*	127)	BD	1420[2]	1
67)	AC	1130[3]	1	97)	AR	1280[4]	1	128)	LG	1430[2]	1
68)	JC	1130[2]	1	98)	NB	1290	1	129)	EK	1430[3]	1
69)	CL	1140[2]	2	99)	IA	1290	1	130)	KU	1430	0.25
1)	GJ	1150	1	100)	EC	1300	1	131)	AP	1430[3]	1*
70)	DL	1150	1*	101)	BK	1300[3]	2	15)	FL	°1440	1
3)	EB	°1150	1	102)	AK	1310	2.5	132)	BZ	1440	1
71)	FI	1150[3]	1	103)	LD	1310[2]	1	133)	EG	1450	0.75
72)	GN	1160[3]	1	104)	JX	1310	1	134)	GM	1450	1
73)	CK	1160	1*	105)	NI	1320	1	135)	IB	1450	1
74)	BS	1160[3]	1	106)	NK	1320	1	136)	HZ	1450	1
75)	BJ	1170[3]	1	11)	FE	°1330[1]	10*	137)	AL	1460	1*
76)	FX	1180[3]	1	107)	AD	1340[4]	1	138)	EJ	1460	1
77)	JE	1180[2]	1	108)	GU	1340[3]	1*	139)	FZ	1460	1
78)	CD	1180	1	109)	HM	1340	1	140)	FC	1470	1*
79)	GK	1180[1]	10*	110)	KY	1350[3]	1*	141)	BK	1470	1*
80)	DT	1190	1*	111)	DS	1350	1*	142)	DH	1480[2]	1
81)	CV	1190	1*	12)	BF	°1350	1	143)	BP	1480	1
82)	AV	1200	2	7)	HA	°1350	1	144)	CL	1480	1
4)	EL	°1210	5	112)	FH	1360	1	145)	JW	1480	1
83)	BE	1210	1	113)	FR	1360	1	146)	LE	1480[2]	1
84)	KR	1220	1*	114)	KX	1370	1*	147)	NT	1490	1
26)	FF	°1230	10*	115)	EN	1370	1	148)	AW	1490	1
10)	FP	°1240[3]	1	116)	BO	1370	1*	149)	HX	1500	1
85)	DI	1240	9*	32)	EA	°1380	1	150)	ET	1510	1
5)	FG	°1240[1]	5*	117)	GH	1380[3]	1*	151)	JB	1520	1*
86)	KW	1250	1*	118)	AS	1390	0.75	152)	FV	1520[3]	1*
87)	AO	1250[4]	1[1]	119)	NU	1390	25	153)	BA	1530	1*
88)	NL	1260	1	120)	FO	1400	1	3)	GD	°1540	0.35
89)	NM	1260	0.5	121)	JA	1400[3]	1*	154)	DN	1540	0.15
90)	NC	1260	1	122)	KM	1400	0.25	155)	CP	1550	1
91)	DA	1260[1]	5*	123)	NY	1400	1	1)	GP	°1560	1
92)	FT	1270[3]	1*	124)	EI	1410[2]	1	156)	CA	1560	1
93)	HS	1270	1	125)	BH	1410	1	157)	NR	1570	0.25
94)	NG	1270	1	126)	FS	1410[3]	2				

[1]) Belongs to R. Cadena Nacional. [2]) Ci. Todelar. [3]) Primera Cadena Radial Colombiana (Caracol). [4]) Circuito Radial A.B.C.

RADIO CADENA NACIONAL (R.C.N.)
ADDR.: Apt. Aéreo 1244, Medellin. **Te.:** 28642 – **L.P.:** Pres.: E. Hernandez Naranjo. Dir. Tec.: E. Ramirez Gaviria. Assa. Mgr.: A. Jaramillo Osorio – St.'s belonging to RCN are: 5), 11), 19), 20), 28), 33), 38), 42), 79), 92), 91), 99), 128). All st.'s operate at 11.00–05.00 – **ANN.:** "Esta es R. Cadena Nacional – Escuchan – (name of station).

CARACOL – PRIMERA CADENA RADIAL COLOMBIANA
ADDR.: Calle 19, 8-48, Bogotá. **Cable:** Caracol. **Te.:** 436-800 – **L.P.:** Pres.: F. Londoño H.

CIRCUITO RADIAL ABC, S.A.
ADDR.: Apt. Aéreo 1771, Apt. Nal. 206, Catagena. **Cable:** "Radial". **Te.:** 13-004 – **L.P.:** Mgr.: R. Fuentes L. Dir. Tec.: C. Estevez L. **D. PRGR.:** 10.45–05.00. **N.:** 12.10, 17.00, 24.00 – **V.** by letter.
St.'s belonging to CRA are 39), 50), 58), 87), 107).

Short Waves:
1) Escuelas Radiofonicas, Apt. Aéreo 1770, Apt. Nac. 3262, Bogota. **Cable:** Radiofonicas. **Te.:** 420543 – **L.P.:** Dir. Gen.: J. J. Salcedo G. Mgr.: F. Sarmiento O. Dir. Tec.: L. M. Pick – **D. PRGR.:** 810 kc: W 11.30–04.00, Sun 12.45–03.00; 1150 kc: W 10.45–03.10, Sun 11.45–18.00 – **N.** (W only): 12.00, 17.00 (1150 kc only), 23.20, 01.00, (not 1150 kc), 03.00 – **Escuelas Radiofonicas:** 11.00–12.00 (repeats: 20.00, 22.00, 00.00) on 5095/6075 kc (1st course), on 3250/5075 kc (2nd course – **ANN.:** "Por la Fe y la Cultura, bases del verdadero progreso, transmite Radio Sutatenza, del Servicio de Radidifusión de Acción Cultural Popular, desde Sutatenza, en Boyaca, República de Colombia" – **V.** by QSL-card.
2) Transversaal 17 No. 25-65, Bogotá. **Te.:** 414070 – **External Sce.:** 12.00–21.30 on 15335 kc, 21.45–05.00 on 11825 kc (test transmissions) – **V.** by QSL-card or letter.
3) Chiquinquira.
4) Carrera la 16-89, Cali – **ANN.:** "Transmiten desde Cali, Sultana del Valle las emisoras R.C.O., R. Melodia, por sus emisoras 1210 kc. onda larga, 4765 kc onda corta, banda internacional de los 60 metros".
5) Armenia – 6) Carrera 43 No. 47-96, Medellin.
7) Carrera 28 Ca. 17 Esquina, Pasto – **L.P.:** Dir. Gen.: M. Julian S. – **D. PRGR.:** N.: 12.00, 18.00, 24.00, 02.00, 03.00 – **ANN.:** "Esta es R. Nariño, emisora filial de R.C.N. Radio Cadena Nacional, la mas basta red de radiodifusion en Colombia" – **V.** by QSL-card.
8) Apt. Aéreo 53-42, Bogotá – V. by letter.
9) Apt. Aéro 572, Apt. Nacional 47, Bucaramanga. **Te.:** 5406. **Telex:** 04886 – **L.P.:** Dir. Gen.: P. Sorzano B. St. Dir.: P. Sorzano Bautista. Dir. Tec.: G. Sorzano J. – **D. PRGR.:** N.: 12.00, 17.00, 24.00. **English:** W 03.30–04.00 – **ANN.:** "Estas son las emisoras de R. Bucaramanga, transmitiendo en sus frequencias H. J. G. F. Onda Corta 4845 kc, H.J.G.E. Onda Larga 1130 kc y Frecuencia Modulada 96 Mc, desde Bucaramanga capital del departemento de Santander en la República de Colombia". **English:** "This is R. Bucaramanga transmitting over the following frequencies: Short Wave: International band of 62 m, 4845 kc; Long Wave: 1120 kc, FM 96 Mc, from Bucaramanga, Colombia in South America" – **V.** by QSL-card. **Re.** in sp., E.
10) Ca. 7a No. 5-69, Neiva – V. by QSL-card.
11) Ca. 18 No. 8-54, Pereira – 12) Ca. 9a No. 5-32, Cúcuta.
13) Carrera 9a No. 11-35, Bogotá – **L.P.:** Dir.: A. Gaitan.
14) Passo Bolivar, Carrera Cuartel, Barranquilla – V. by QSL-card.
15) Edif. Raad, Ibague – **L.P.:** Dir.: L. E. Martinez R.
16) Ca. 14 No. 14-61, Bogotá. **Te.:** 416.116. **Cable:** Emisora – **L.P.:** Dir. Gen.: J. Molina R. St. Dir.: F. Miguel Diaz R. Dir. Tec.: A. Estevez – **D. PRGR.:** 24 h. **N.:** every h. **German:** Mo 02.00–03.00. **Italian:** Sun 17.30 – **ANN.:** "Desde Bogota, Colombia transmite Emisora Suramerica, una Radio "Satelite" de R.C.N., Radio Cadena Nacional. La mayor organizacion Radial de Colombia. Estaciones HJCO, Onda Larga 1130 kc, Onda Corta HJCW 4945 kc, FM 90.1" – V. by QSL-card.
17) Apt. Aéreo 9339, Bogotá. **Te.:** 420-910. **Cable:** "Radio Santa Fe". **Telex:** 044-778 – **L.P.:** Dir. Gen. & Dir. Tec.: H. Bernal A. – **D. PRGR.:** N.: every 15 min. and at 10.00, 17.30, 23.30, 04.15 – **ANN.:** "Aqui y en todas partes, R. Santa Fé 1070 y 4965 kc en Bogotá, Colombia" – **V.** by letter.
18) Tunja – **L.P.:** Mgr.: L. Lopez R.
19) Apt. Aéreo 244. Manizales. **Cable:** Transmisora. **Te.:** 5549 – **L.P.:** Dir. Gen.: E. Bermuda R. Mgr.: I. Escobar U. Dir. Tec.: Dr. C. Ignacio H. Dir. Foreign Rel: H. Villegas. – **D. PRGR.:** N.: Every half h – **ANN.:** "Transmisora Caldas en Manizales Colombia. HJFJ y HJFW ondas larga y corta – Filial de R.C.N., Radio Cadena Nacional, Transmisora Caldas "la voz que se escucha en toda la Nacion" – **INT.-SIG.:** Organ melody every 15 min. – **F.PL.:** TV st. – **V.** by QSL-letter.

Transmisora Caldas
Manizales–Colombia–Sur América
– Zona Central Cafetera del Pais –

20) Apt. Aéro 1244, Medellin. **Te.:** 28642 – **L.P.:** Mgr.: R. Jaramillo I. Dir. Tec.: E. Ramirez C. – **D. PRGR.:** N.: 12.00, 17.30, 00.30, 04.45. – **ANN.:** "Esta es R. Cadena Nacional transmitiendo por su emisora La Voz de Medellin, 990 kc" – **V.** by QSL-card. Re. in F., E., Sp.
21) Apt. Aéreo 38–55, Nal. 26–65, Bogotá. **Te.:** 422344 – **L.P.:** Mgr.: J. Munera L. Dir. Tec.: R. Gomez S. – **D. PRGR.:** m.w. 11.00–05.00. N.: 11.30, 17.30, 03.00 – **ANN.:** "Aqui Bogotá, transmiten las Emisoras de La Voz de Colombia, en sus frecuencias de... afiliada a Federradio, Federacion Colombiana de Radiodifusion. Si es un buen programa, es por La Voz de Colombia 690 en su radio" – **V.** by QSL-card or letter. Re. in Sp or **E.**
22) Carrera 6a No. 14-88, Bogotá – **V.** by letter.
23) Carrera 47 (Sucre), 53-29, Medellin – **V.** by QSL-card or letter.
24) Apt. 244, Pereira – **L.P.:** Dir.: J. Mejia D. – **V.** by letter.
25) Carrera 16, 19-28, Armenia. **Cable:** Vozarmenia – **L.P.:** Dir. Gen.: J. M. Toro E. – **D. PRGR.:** N.: 12.30, 17.00, 24.00 – **ANN.:** "Emisora la Voz de Armenia 6010 kc onda corta banda internacional de 49 metros, 1090 kc onda local, 88.4 Mc, frecuencia modulada, en Armenia Quindio-Colombia" – **V.** by letter.
26) Apt. Aéreo 89, Pereira – **L.P.:** Dir.: O. Giraldo – **ANN.:** "En 1230 kc la esucha Pereira y Colombia, en 6010 kc la esucha el mundo. Esta es La Voz Amiga, su amiga y su emisora" – V. by letter.
27) Apt. Aéreo 604, Ibague – **V.** by QSL-card or letter.
28) Apt. Aéreo 2180, Cali – **V.** by letter.
29) Apt. Aereo 31-63, Medellin. **Te.:** 80237 – **L.P.:** Dir. Gen.: J. Tobon de la Roche. Dir. Tec.: A. Toro P – **D. PRGR.:** N.: 12.00, 17.00, 23.45, 03.00 – **ANN.:** "Radio Vision, de Medellin, Emisoras del Circuito Todelar de Colombia lo moderno en radio" – **V.** by letter – **F.PL.:** FM and 11 st's throughout the country.

RADIO VISION, Medellin, Colombia Una distinta Visión de la Radio.

30) Carrera 9a, 10-45, Apt. Aéreo 1972, Cali – **L.P.:** Dir.: F. Franco Garcia – **ANN.:** "Esta es R. El Sol, 980 kc, canal preferencial; onda corta 6115 kc, banda internacional de 49 metros; del Circuito Todelar de Colombia, Radio El Sol, de Cali, en dos frecuencias para cubrir toda la república" – **V.** by letter.
31) Ca. 23, 1-25, Cali.
32) Apt. Aéreo 535, Popayan – **V.** by letter.
33) Carrera 15, 13-47, Bogotá. **Te.:** 344805. **Cable:** "Nuevagranada" – **L.P.:** Gen. Mgr.: J. Alvarez Botero. Dir. Tec.: E. Ramirez G. – **D. PRGR.:** 24 h. **N.:** 12.00, 17.30, 24.00, 04.45 – **ANN.:** "Emisoras Nuevo Granada de Radio Cadena Nacional, transmitiendo desde Bogota, Colombia" – **V.** by letter. Re. in Sp, E. Prgr.schedule on request.
34) Apt. Aereo 1972, Ca. 11, 9-20, Cali – **V.** by letter.

Medium Waves:

35) **R. Manizales**, Apt. Aéreo 67, Manizales. **Te.:** 1395 – **L.P.:** Dir. Gen.: A. Cadavia. Dir. Tec.: L. Fernando H. – **D. PRGR.:** 11.00–05.00. **N.:** 12.00, 17.30, 24.00, 03.00 – V. by letter.
36) **R. Renacimiento**, Bogotá – **L.P.:** Mgr.: V. Nieto – V. by letter.
37) **La Voz de Bello**, Bello.
38) **R. Miramar**, Apt. Aéreo 246, Cartagena – V. by letter.
39) **Emis. Unidas**, Apt. Aéreo 154, Barranquilla – V. by QSL-card.
40) **R. Tricolor**, Ca 24 No 6-09, Bogotá.
41) **La Voz de Antioquia**, Maracaibo 46-80, Medellin.
42) **La Voz de Barranquilla**, Barranquilla.
43) **Ecos de Pasto**, Av. Santander 21-76, Pasto.
44) **Ecos de la Montaña**, Ca. 53, 52A-42, Medellin.
45) **La Voz del Rio Cauca**, Carrera 18-39, Cali.
46) **Ondas del Caribe**, Sta. Marta.
47) **Emisora Nuevo Mundo**, Ca. 19, 9-48, Bogotá.
48) **Voces de Occidente**, Carrera 14, 2-31, Buga.
49) **La Voz de los Comuneros**, Bucaramanga.
50) **Emisora Fuentes**, Apt. Aéreo 771, Nal 206, Cartagena.
51) **R. Eco**, Cali – **L.P.:** Mgr.: H. Herrera B.
52) **La Voz del Cafe**, Carrera 8a. 15-47, Pereira.
53) **R. Kalamary**, Barranquilla – **L.P.:** Mgr.: E. Ariza.
54) **Emisora Claridad**, Av. 10 de Mayo 49-53, Medellin.
55) **Emisora Mil Veinte**, Ca. 13 No. 8-75, Bogotá.
56) **R. Progreso**, Ca. 13, 14-17, Bogotá.
57) **La Voz del Triunfo**, Ca. 51 (Boyaca), 51-31, Bogotá.
58) **La Voz del Sinu**, Monteria.
59) **R. Musical**, Ca. 11, 9-20, Cali – **L.P.:** Mgr.: B. Tobon.
60) **R. Reloj**, Ca. 53, 46-80, Medellin – V. by letter.
61) **Ondas del Valle**, Carrera 5a, No. 12-23, 3° Piso, Cartago.
62) **La Voz de Cucuta**, Av. 5a, 10-11, Cúcuta.
63) **R. Reloj**, Carrera 42, 23-46, Barranquilla.
64) **R. Reloj**, Ca. 19, 8-48, Bogotá.
65) **Ondas del Rio**, Magangué.
66) **R. Reloj**, Carrera 1a, 18-39, Cali.
67) **Emisora Riomar**, Ca. 32, 42-19, Barranquilla.
68) **R. Cartago**, Carrera 4a, 10-62, Cartago.
69) **R. Girardót**, Ca. 8a, 10-19, 3° Piso, Girardót.
70) **R. Cristal**, Medellin – **L.P.:** Dir.: J. Zuleta F.
71) **Pregones del Quindio**, Ca. 19, 14-42, Armenia.
72) **R. Barrancabermaja**, Barrancabermaja.
73) **El Mundo en Bogotá**, Carrera 7a, 17-14, 3° Piso, Bogotá.
74) **La Voz de Sta. Marta**, Sta. Marta.
75) **La Voz de Santa Maria**, Santa Maria.
76) **La Voz del Ruiz**, Manizales – **L.P.:** Mgr.: F. Londoño.
77) **R. Villa de Cespedes**, Tulua.
78) **R. Nueva Epoca**, Fusagasuga.
79) **R. Santander**, Apt. Aéreo 1100, Bucaramanga – **L.P.:** Dir. Gen.: E. Hernandez – **D. PRGR.:** 10.30–05.00. **N.:** 12.00, 17.30, 00.00, 02.30, 04.45.
80) **R. Nutibara**, Edificio Alejandro Angel, Medellin. **Te.:** 14675 – **L.P.:** Dir. Gen.: J. Garcia Lobo. Dir. Tec.: H. Cárdeñas – **D. PRGR.:** 11.30–05.00.
81) **R. Popular**, Carrera 9a, 13-42, Bogotá.
82) **R. Cordobesa**, Monteria – 83) **Ecos de Ocaña**, Ocaña.
84) **R. Industrial**, Bogotá – 85) **Pontificia Bolivariana**, Apt. Aéreo 1178, Medellin – 86) **R. Modelo**, Bogotá.
87) **R. Vigia**, Apt. Aéreo 154, Nal. 324, Barranquilla.
88) **R. Panamericana**, Villamaria.
89) **Emisora Cultural Bolivar**, Ipiales – 90) **Ondas del Nevado**, Ibague.
91) **Emisora Siglo XX**, Carrera 51, (Bolivar), 59-53, Medellin.
92) **Ecos del Combeima**, Ibague – 93) **Voz del Rio Zulia**, El Zulia.
94) **R. Palmira**, Palmira – 95) **Onda Libre**, Pereira.
96) **Emisora Metropolitana**, Ca. 24 No. 6-09, Bogotá.
97) **La Voz de Cartagena**, Apt. Aéreo 246, Cartagena.
98) **R. Guia**, Bucaramanga.
99) **R. Villavicencio**, Ca. 20 No. 21-62, Villavicencio.
100) **R. Libertador**, Carrera 3a, 15-80, Cali.
101) **R. Valledupar**, Valledupar.
102) **La Voz de la Patria**, Apt. Aéreo 231, Nal. 621, Barranquilla.
103) **R. San Eugenio**, Carrera 15, 15-32, Santa Rosa de Cabal.
104) **Emisora Eldorado**, Bogotá – 105) **Emisora de Aralaya**, Piedecusta – 106) **Emisora IRC**, Palmira.
107) **R. Vigia**, Apt. Aéreo 1771, Nal. 206, Cartagena.
108) **Ondas del Fonce**, San Gil – 109) **Voz de Calarca**, Calarca.
110) **Ondas del Puerto**, Ca. 14, 11-19, Girardot.
111) **La Voz de la Americas**, Carrera 51 (Bolivar), 51-40, Medellin.
112) **La Voz de Anserma**, Anserma – **L.P.:** Mgr.: H. Marin V.
113) **Ondas del Huila**, Banco Comercio, Neiva.
114) **La Voz de Cundinamarca**, Bogotá – **L.P.:** Mgr.: L. Rodriguez.
115) **R. Cultura**, Carrera 7a, 16-42, Cali – **L.P.:** Dir.: A. Mesa.
116) **R. Piloto**, Barranquilla – **L.P.:** Mgr.: P. J. Cañizares.
117) **R. del Comercio**, Ca. 35, 12-66, Bucaramanga.
118) **Emisora Variedades**, Ca. 35, 35-106, Barranquilla.
119) **Radio Sta. Barbara**, Sta. Barbara – 120) **R. Luz**, Carrera 22, 16-19, Manizales.
121) **R. Buenaventura**, Ca. 5a Carrera 2a, Buenaventura.
122) **Emisora Mariana Bogotá**, Carrera 7, 6-10, Bogotá. **Te.:** 462712 – **L.P.:** Dir. Gen.: R. P. Manuel Cadierno. Mgr. & Dir. Tec.: Dr. Pompilio Sanchez – **D. PRGR.:** 11.00–03.00 – **English:** (L.L.): 11.30, 12.30, 13.30.
123) **R. Pipaton**, Barrancabermja.
124) **Emisora Guadalajara**, Carrera 5a, 8-53, Buga.
125) **R. Magdalena**, Ca. 7a, 5-54, Santa Maria – 126) **Ondas del Guali**, Honda.
127) **R. Gualmaral**, Apt. 5-54, Cúcuta.
128) **La Voz de la Dorada**, Carrera 3a No. 11-25, La Dorada.
129) **R. Tulua**, Carrera 26, Ca 26 y 27, Tulua.
130) **La Voz de Maria**, Bogotá – 131) **R. Marina**, Cartagena.
132) **Ondas de Riohacha**, Riohacha.
133) **R. Belacazar**, Ca. 5a, 5-81, Popayán.
134) **R. Sogamoso**, Sogamoso – **L.P.:** Dir.: J. C. Medina S.
135) **Voz del Caqueta**, Florencia – 136) **Emisora Mariana**, Pasto.
137) **R. Sincelejo**, Plaza Olaya Herrera, Sincelejo.
138) **Armonias del Palmar**, Ca. 29, 29-67 y 29-73, Palmira.
139) **La Voz del Espinal**, Espinal – **L.P.:** Dir.: A. Useche B.
140) **R. Centinela**, Carrera 8a, Edificio Algira, Pereira.
141) **La Voz de la Gran Colombia**, Villa del Rosario.
142) **R. Quibdo**, Quibdo – 143) **R. Pamplona**, Pamplona.
144) **R. Garzón**, Ca. 7a con Carrera 8a, Garzón.
145) **R. Festival**, Soacho.
146) **R. Armero**, Armero – **L.P.:** Dir.: R. Andrade.
147) **Voz del Paraiso**, Cerrito – 148) **Voz del Monteria**, Monteria.
149) **Voz Panamericana**, Floridablanca.
150) **R. Bolivar**, Av. 8a, 10-110, Cali.
151) **R. Sevilla**, Carrera 50, Ca. 49 y 50, Sevilla.
152) **La Voz del Litoral**, Ca. 37, 43-80, Barraquilla.
153) **La Voz de Pamplona**, Pamplona, N. de Santander.
154) **Liceo Departemental**, Sonson – 155) **R. Parroquial**, Nemocón.
156) **R. Boyaca**, Apt. Nal. 97, Tunja – V. by letter.
157) **R. Copacabana**, Copacabana.

ECUADOR

L.T.: GMT ÷ 5 h – Pr. L.: Spanish, Quechua.

INSPECCION DE RADIO, Ministerio de Publicas Direccion Tecnica – **ADDR.:** Benalcazar 698, Quito. **Cable:** Radionacional. **Te.:** 11019. **L.P.:** – Dir.: Alfonso Zabala.

ASOCIACION ECUATORIANA DE RADIODIFUSORAS
ADDR.: Apt. 289, Quito. **Cable:** AER. **Te.:** 10669.
STATIONS: Short Waves: Call: HC–.

	Call	kc	m	kW	Name and h of tr.
1)	LM3	3245	92.45	0.25	La Voz de Pasaje, Pasaje
2)	DR4	3355	89.42	0.2	R. Miramar, Bahia
3)	MS4	3375	88.89	0.2	R. Alejo Lascano, Jipijapa: 05.30–09.30, 00.30–04.00
4)	JP4	3385	88.63	0.2	R. Ondas Manabitas, Sucre
5)	SG4	3505	85.59	0.22	La Voz del Valle, Porto viejo
6)	NL2	3510	85.47	0.2	La Voz del Campesino, Naranjal
7)	KD5	3515	85.35	0.2	R. Centro Gualaco, Gualaco
8)	YC4	3520	85.23	0.2	R. Escuelas Radiales, Camp. Lita
9)	OT1	3545	84.63	0.3	R. Saracay, Sto. Domingo Cds.
10)	HG2	3570	81.24	0.2	R. Central, Vinces 23.30–04.30
11)	GS6	3615	86.00		R. Sideral, Salcedo
12)	EF2	3620	82.87	0.1	El Sagrario, Guayaquil 12.00–13.00, 00.00–01.00
13)	OS4	3630	82.64		La Voz del Carrizal, Calceta
15)	FC3	3670	81.74	1	R. Loja 12.00–16.00, 17.00–21.00, 23.00–04.00
14)	IM1	3680	81.48	0.25	La Voz de los Lagos, Otavalo
16)	LE1	3695	80.95		R. Cotacachi
17)	BH6	3755	79.90		R. Latacunga
18)	JR6	3745	79.65	0.2	La Voz del Colegio Mera, Ambato
19)	WN1	3835	78.20	0.2	La Voz del Triunfo, Sto. Domingo Cds.
20)	DY4	3945	76.05	0.25	R. Iris, Esmeraldas
21)	PZ1	3950	79.95	0.3	R. Rumichaca, Tulcan 11.00–04.30
22)	LR5	3950	75.95	0.2	La Voz de Alausi
23)	JJ2	3960	75.76	0.2	R. Ecos del Agro, Quevedo
24)	JH1	3965	75.67	0.35	R. Turismo, Otavalo 11.00–04.30
25)	HV4	3970	75.57	0.2	La Voz del Pueblo, Jipijapa
26)	SN6	3975	75.47	0.2	R. Sira, Ambato
27)	OF4	3980	75.38	0.4	La Voz de Chone, Chone
28)	AH3	3985	75.28	0.2	R. El Trebol, Zaruma
29)	JA5	3990	75.19	0.25	La Voz del Rio Tarqui, Cuenca
14)	GB4	3995	75.09	1	R. Nac. Espejo, Esmeraldas
30)	AO5	4000	75.00	0.3	La Voz de Tomebamba, Cuenca 11.45–04.00
14)	GE2	4545	66.02	1	R. Nac. Espejo, Guayaquil: 23.00–05.00
34)	AK2	4650	64.50	0.5	R. de Ecuador, Guayaquil: 12.00–05.00
14)	WE1	4680	64.10	1	R. Nac. Espejo, Quito: 10.30–06.00
35)	MX4	4690	63.96	0.25	R. Cenit, Portoviejo: 13.00–04.30
54)	BK2	4710	63.69	0.5	R. El Mundo, Guayaquil: 12.00–03.00

Ecuador

41)	RM3	4725	63.49	0.2	R. Cultural, Machala: 00.00–04.00
32)	ET2	4730	63.42	0.3	R. El Telegrafo, Guayaquil: 13.00–04.00
33)	LJ6	4755	63.10	0.2	La Voz de Bolivar, Guaranda 23.00–04.00
36)	1MQ	4780	62.76	2	R. Atahualpa, Quito 11.00–13.30, 17.00–19.30, 23.00–04.30
31)	AS4	4790	62.63	0.2	La Voz de los Caras, Bahia: 23.00–04.30
37)	SV5	4800	62.50	0.2	R. Amazonas, Cuenca
38)	LS3	4810	62.37	0.2	R. Coro Santa Cecilia, Loja
39)	FA4	4815	62.31	0.3	La Voz de Manabi, Portoviejo
40)	AP4	4830	62.10		La Voz del Valle, Machachi
42)	CV3	4850	61.86	0.25	Ondas del Zamora, Loja
43)	1CD	4865	61.66	1	R. Luz de America, Quito: 11.30–04.00
44)	AR1	4910	61.10	0.1	La Voz de Montúfar, San Gabriel
45)	1MJ	4910	61.10	2	Emisoras Gran Colombia, Quito: 11.00–13.00, 00.00–06.00
46)	MP2	4920	60.98	0.2	La Voz de la Peninsula, La Libertad
47)	JX6	4920	60.98	0.1	R. Cultural Religiosa, Baños
48)	QR1	4923	60.94	0.5	R. Quito: 11.15–04.30
49)	CR1	4930	60.85	1	R. Casa de la Cultura, Quito: 11.30–13.00, 17.00–19.00, 00.00–03.15
50)	XZ1	4940	60.73	10	R. Nacional del Ecuador, Quito: 11.30–05.00
51)	PH5	4960	60.48	1	R. Ruta, Riobamba
53)	JC5	4980	60.24	0.3	Ondas Azuayas, Cuenca: 11.00–04.30
55)	RP1	5010	59.88		R. Católica, Quito: 10.30–04.30
57)	PS5	5030	59.64	0.5	R. Ondas Cañaris, Azogues
58)	CU5	5035	59.58		La Voz de Azogues
59)	EA5	5045	59.46	0.25	R. Roxi, Riobamba: 13.00–03.00
61)	MV5	5060	59.25	0.2	Voz del Austro, Cuenca: 11.00–04.30
60)	RI1	5090	59.00	0.25	R. C.R.I., Ibarra: 11.00–04.30
56)	OB5	5105	58.77	0.2	R. Ondas Azules, Cuenca
68)	DF1	5850	51.28	0.8	La Voz del Norte, Ibarra: 11.45–04.00
62)	CV5	5950	50.42		La Voz de los Cuatro Rios, Cuenca
63)	TR1	5960	50.34	0.3	R. Equinoccial, Ibarra
64)	GE5	5965	50.29	0.2	R. Mundial, Riobamba: 13.00–04.00
65)	JT1	5970	50.25	0.2	R. Tulcán
66)	MH6	5975	50.21	0.3	Ondas Rdfnco. del Cotopaxi, Latacunga 11.00–04.30
52)	GH1	5985	50.13	0.3	R. Tarqui, Quito: 11.05–04.00
67)	GY6	5990	50.08	0.5	R. Luz, Ambato: 12.00–14.00, 17.30–19.30, 22.00–01.00, 02.00–04.00
69)	EB4	6015	49.88	0.5	R. Manta 12.00–14.00, 17.00–19.00, 23.00–04.00
70)	NF5	6020	49.83	0.25	R. del Ecuador, Cuenca
71)	RQ2	6030	49.75	0.2	La Voz del Tropico, Quevedo
73)	JB	6050	49.59	30	La Voz de los Andes, Quito
74)	AC1	6060	49.50	0.75	La Voz de la Democracia, Quito 11.30–14.00, 00.00–04.30
75)	EM1	6065	49.46	0.2	Ondas Carchenses, Tulcan 12.00–19.00, 21.00–04.00
76)	IW5	6070	49.42	0.5	R. El Mercurio, Cuenca
77)	DG2	6080	49.34		R. Bolivar, Guayaquil
78)	5PT	6095	49.22	0.3	La Voz del Perpetuo Socorro, Cuenca: 12.00–06.00
79)	SP4	6100	49.18	0.3	La Voz del Volante, Portoviejo: 10.00–03.00
80)	RL2	6120	49.02		R. Quinta Piedad, Guayaquil: Wed 02.00–04.00
81)	FB2	6130	48.94	1.5	R. Nac. Condor, Guayaquil
82)	OV5	6140	48.86	1	Ondas del Volante, Azogues: 10.00–03.00
83)	LT4	6155	48.74	0.3	R. Costa Azul, Portoviejo
84)	SJ1	6160	48.70	1	R. Javier, Quito
85)	PJ2	6170	48.62	0.2	R. Fluminense, Babahoyo
86)	RT6	6180	48.54	0.6	R. Paz y Bien, Ambato 12.00–14.00, 17.00–19.00, 22.00–03.00
87)	XX2	6185	48.50	0.2	La Voz de Vinces, Vinces
88)	JC3	6190	48.47	0.25	R. 18 de Noviembre, Loja
89)	EH6	6195	48.43	1	R. Cosmopolita, Ambato: 11.30–04.00
72)	NK3	6235	48.12	0.5	R. Cariamanga: 23.00–04.00
90)	VC3	6250	48.00		R. Centinela del Sur, Loja: 12.00–04.00
91)	VM6	6270	47.87	0.3	R. Once de Noviembre, Latacunga: 11.40–04.00
92)	JZ3	8900	33.70	0.2	R. Fenix, Zaruma
73)	JB	9745	30.78	1/30	La Voz de los Andes
93)	2VP	4600	65.22	3	R. Atalaya, Guayaquil: 11.00–05.00
73)	JB	11915	25.18	30	La Voz de los Andes
73)	JB	15115	19.85	1/30	La Voz de los Andes
73)	JB	17890	16.77	30	La Voz de los Andes

Medium Wave: Call: HC–. °=Short Waves.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
49)	BX2	588	0.2	95)	VM1	615	0.4	84)	SJ1	°670	1
94)	SP1	595	0.2	50)	XY1	°640	10	96)	PV2	675	
73)	JB1	°700	30	121)	JI5	980	0.3	140)	RB2	1250	0.1
40)	AM4	°715		52)	GH1	°990	0.25	141)	UM2	1270	0.25
97)	AF2	725		122)	LV1	1020	0.25	74)	AB1	°1280	0.35
98)	IC1	730		123)	TO5	1027		142)	DC2	1300	0.25
99)	CT2	750		124)	CW1	1040	0.3	14)	GB1	°1310	0.4
73)	JB	760	0.5	14)	BG1	1045		143)	JD6	1320	1
100)	MF2	770		34)	2AJ	°1050	10	14)	PX1	1335	0.3
101)	RG4	780	0.3	125)	VP1	1065	0.5	93)	AU2	°1350	0.25
102)	BT4	790	0.35	126)	FD2	1080	0.3	86)	PB6	°1355	0.4
77)	DE2	°800	10	127)	MG1	1090		48)	RQ1	°1360	0.5
103)	VT2	810	0.2	59)	ED5	°1090	0.25	144)	PV6	1380	
104)	ET6	845		12)	GB6	1100	1	145)	JN1	1380	0.3
14)	GB2	825	2	128)	AP1	1111		62)	CV5	°1390	0.3
43)	1CD	°835	1	129)	LA2	1115	0.2	146)	VE4	1395	
105)	AJ2	850	0.2	130)	GM7	1120		147)	FL2	1400	0.2
106)	DG1	855		131)	GY6	1125	0.5	148)	BS4	1400	
107)	VN4	860	0.25	81)	FB2	°1140	0.25	14)	GB6	1410	0.2
108)	NY2	870		132)	AP5	1130	0.35	45)	1MI	°1410	2
55)	RP1	°880	0.5	133)	RK1	1145	0.4	149)	MB2	1425	0.25
109)	TL5	890		14)	CZ5	1150	0.3	49)	BX1	°1430	0.25
110)	GC2	895	0.3	32)	ET2	°1160	0.25	51)	SC5	°1445	1
111)	AE1	900	0.2	134)	VJ5	1170	0.25	150)	AQ2	1450	0.25
64)	GR5	°910	0.2	135)	LR1	1180	0.4	41)	GM1	1460	0.25
112)	RU3	914		136)	BE2	1190	0.3	36)	1MQ	°1490	1
113)	CM1	920	0.5	137)	CS1	1195		151)	WN5	1496	0.4
114)	VL2	925	0.3	53)	JE5	°1200	0.25	152)	VR1	1520	0.3
115)	UE5	935		138)	GU1	1210	1	66)	MH6	°1535	0.2
116)	MT1	940		54)	BJ2	°1220	0.25	89)	EJ6	°1550	0.3
117)	DE2	945	0.2	26)	JM6	°1225	0.2	153)	DJ1	1545	
118)	MC2	955	0.2	18)	6CM	°1240	1	154)	EG1	1590	0.5
119)	NC1	960	0.4	139)	FA1	1245	0.35	155)	HC1	1590	0.3
120)	AW2	973	0.2								

Short Waves:

1) Pasaje – 2) Bahia.
3) Ca. Bolivar 800, Jipijapa – **V.** by QSL-card or letter.
4) Ca. 24 de Mayo, Sucre – **L.P.**: J. N. Pinargote E.
5) Portoviejo – 6) Naranjal – 7) Gualaceo – 8) Campamento Lita.
9) Sto. Domingo de los Colorados.
10) Malecon Eloy Alfaro y Olmedo, Bahos Hotel, Vinces. **Cable**: Emicentral – **D. PRGR.**— **N** : 01.00–03.00 – **ANN** : "Esta es organizacion *Radiofonica de Emisora "Central" transmitiendo desde Vinces*, Republica del Ecuador, Pais Amazonico" – **V.** by letter.
11) Salcedo – **L.P.**: Dir.: G. Salazar.
12) Apt. 3958, Guayaquil. **Te.**: 12865. **L.P.**: Dir. Gen.: E. N. Fiallos. **V.** by letter – 13) Calceta. **L.P.**: Dir.: R. Navarrete.
14) **R. Nacional Espejo** (Cadena Amarillo, Azul y Rojo del Ecuador). **ADDR.**: HCGB2: Av. 9 de Octubre, Guayaquil, HCGB1: Esmeraldas 865, Quito; HCBGL: R. Sport, Quito. HCCZ5: **La Voz de Riobamba**, Riobamba. HCPX1: **R. Victoria**, Venezuela 632, Quito. HCGB6: Ambato. HCGM1: **R. Reloj**, Esmeraldas 865, Quito – **L.P.**: Dir. Gen.: G. Brborich. Dir. Tec.: R. Flores – **ANN.**: "R. Nacional Espejo la primera y mas potente emisora del pais" – **V.** by QSL-card.
15) Apt. 236, Loja – **D. PRGR.**: **N.**: 11.00, 17.00, 02.00 – **ANN.**: "Esta es Radio Loja, La Voz del Cuxibamba que transmite en los 3670 kc" – **V.** by letter. Re. in Sp.
16) Cotacachi – 17) Latacunga – 18) Apt. 91, Ambato – 19) Sto. Domingo de los Colorados – 20) Cas. 142, Esmeraldas. **L.P.**: Dir.: D. Alvarez T. – 21) Tulcan. **L.P.**: Dir.: E. Cabezas G – 22) Alausi – **L.P.**: Dir.: L. Rodriguez – 23) Quevedo. **L.P.**: Dir.: J. C. Jalon F – 24) Otavalo. **L.P.**: Dir.: J. A. Vivar – 25) Jipijapa. **L.P.**: Dir.: H. Vásquez.
26) Ambato. **L.P.**: Dir.: J. Mancero – 27) Chone. **L.P.**: Dir.: O. Castro I – 28) Zaruma. **L.P.**: Dir.: E. Cuzman Z – 29) Cuenca. **L.P.**: Dir.: M. Pulla C.
30) Cas. 766, Cuenca. **Te** : 2650 – **L.P.**: Dir.: H. Espinosa T - **D. PRGR.**: **N.**: 17.00, 01.45.
31) Sucre 1922, Bahia – **L.P.**: Dir.: A. Nevares.
32) *10 de Agosto 601, Guayaquil* – 33) *Guaranda*. **L.P.**: Dir.: L. Alarcon – 34) Av. Almedo 111, Guayaquil – 35) Portoviejo.
36) Apt. 3213, Quito. **Cable**: Rahualpa. **Te.**: 12385 – **L.P.**: Dir. Gen.: D. Gonzalo Maldonado. Dir. Prgr.: G. Jacome. Dir. Tec.: L. Calderon Dir. For. Rel.: L. Rivadeneira – **D. PRGR.**: mw. 11.00–04.30 **N.**: 11.00, 18.00, 19.00, 23.00, 01.00, 03.00 – **INT. N.**: every half h from 11.00–04.30 – **Mbg.**: Sun 02.30 – **ANN.**: "Les habla R. Atahualpa, emisora matriz del Circuito H.C.M.Q., transmite en 1490 kc, canal perferencial y 4780 kc, canal nacional, desde Quito, capital del Ecuador" – **V.** by letter – **Affiliated st.'s**: 21), 33), 53), 57), 60), 66), 72), 79), 90), 89), 101), 121).
37) Cuenca. – 38) Asoc. Juventud Femenina, Loja.
39) Portoviejo. **L.P.**: Dir.: C. Chavez C. – 40) Machachi - 41) Concejo Municipal, Machala.
42) 24 de Mayo Loja – **L.P.**: Dir.: C. M. Balarezo.
43) Apt. 3190, Quito. **Te.**: 16717 – **L.P.**: Dir. Gen.: Dr. C. A. Dávila. Dir. Tec.: F. Castillo – **ANN.**: "Aqui *Emisoras* Luz de America, Quito, Ecuador" – **V.** by letter.

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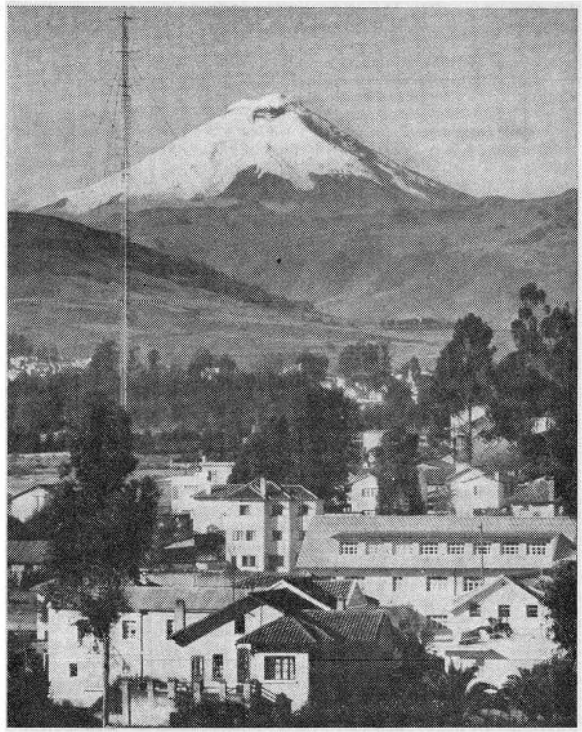


44) Centro Obrero de Montufar, San Gabriel.
45) Cas. 2246, Quito. **Cable:** Emigrancolombia. **Te.:** 11670 – **L.P.:** Dir. Gen.: E. Cevallos C. Dir. Tec.: F. Simon – **D. PRGR.:** Mw. 10.45–06.00. **N.:** 11.00, 18.00, 03.30 – **ANN.:** "Emisoras Gran Colombia-Matriz de RCNE – R. Cadena Nacional Ecuatoriana con 3 Emisoras propias en Quito y 20 Emisoras afiliadas en provincias" – **V.** by letter and streamer. **St.'s. owned by 40:** 54, 74, 145 – **Afiliated** st.'s: 7), 9), 20), 24), 30), 31), 35), 46), 57), 59), 65), 68), 75), 90), 91), 95), 121).
46) La Libertad. **L.P.:** Dir.: M. Pinargote P – 47) Baños. **L.P.:** Dir.: Pdr. Rosario P.
48) Apt. 57, Quito. **Te.:** 10151 – **L.P.:** Dir. Gen.: H. Molina. Dir. Tec.: A. Horvath – **D. PRGR.:** **N.:** 12.00, 13.15 and every h on the h from 17.00 – **ANN.:** "R. Quito, La Voz de la Capital...1360 y 4923 kc desde Quito, Ecuador" – **V.** by letter – **F.PL.:** Sw. 3 kW, mw. 5 kW.
49) Apt. 67, Quito. **Te.:** 31123 – **L.P.:** Pres.: Dr. B. Carrion – **D. PRGR.:** **N.:** 11.45, 03.00 – **ANN.:** "Esta es R. difusora de la Casa de la Cultura Ecuatoriana, que transmite desde sus estudios en la ciudad de Quito" – **V.** by letter. Re. in Sp. – Prgr.sched. on request.
50) Apt. 1316, Quito. **V.** by letter and schedule – 51) Sindicato de Choferes, Riobamba – 52) Plaza del Teatro, Quito. **V.** by letter.
53) Apt. 4980, Cuenca – **L.P.:** Dir.: A. Cardozo – **V.** by letter.
54) 9 de Octubre 308, Cuayaquil – **L.P.:** Dir.: G. Vergara.
55) Cuenca 937, Quito. **L.P.:** Dir.: N. Rojas – 56) Cuenca. **L.P.:** Dir.: O. Beltrán M – 57) Azogues. **L.P.:** Dir.: H. Vicuña.
58) Azogues – **L.P.:** Dir.: H. Castañier C.
59) Teatro Roxy, Riobamba – **L.P.:** Dir.: E. Abdo.
60) Ibarra. **L.P.:** Dir.: A. Moran M – 61) Cuenca. **L.P.:** Dir.: M. Villavicencio – 62) Cuenca. **L.P.:** Dir.: D. Pinos.
63) Av. Mariano Acosta, Ibarra – 64) Riobamba. **L.P.:** Dir.: G. Encalada – 65) Tulcán. **L.P.:** Dir.: J. Betancourt – 66) Latacunga. **L.P.:** Dir.: C. Morán B – 67) Apt. 240, Ambato – 68) Ibarra. **L.P.:** Dir.: E. Davila.
69) Apt. 4869, Manta – **L.P.:** Dir.: E. Bowen – **D. PRGR.:** **N.:** 12.30, 17.00, 23.30 – **ANN.:** "Transmite R. Manta, con sus estaciones... la mas antigua y potente emisora del puerto. Desde Manta, Ciudad de turismo y primer puerto maritimo en la Provincia de Manabi" – **V.** by QSL-card or letter.
70) Cuenca. Dir.: A. Vásques – 71) Quevedo – 72) Cariamanga.
73) **LA VOZ DE LOS ANDES**
Operated by missionary organization: **The World Radio Missionary Fellowship, Inc.** No comm. adv. Public Service and ann. of cultural activities accepted free of charge – **FI.:** Supported by voluntary gifts from Evangelical Christian groups and "Share-the-cost" plan. **ADDR.:** Cas. 691, Quito. **Cable:** Vozandes. (USA Office: Voice of the Andes, Box 691, Miami 47, Florida). – **L.P.:** St. Mgr.: Abe Van Der Puy. Asst. Mgr.: G. Saenz. Asst. to Mgr.: R. Jones. Spanish Sce. Dir.'s: R. Clark (Cult.), E. Romero (Rel.). Eng. Sce. Dir.: S. Hunter. Operations Dir.: J. Guzman.
HOME SERVICE in Spanish: D 10.30–04.00.
10.30–14.00 on 700, 760, 6050, 9745, 11915, 15115 kc. 14.00–24.00 on 700, 6050, 9745 kc. 00.00–02.00 on 700, 6050, 9745, 11915, 15115 kc. 02.00–04.00 on 700, 6050 kc.
N.: W 11.00, 11.20, 11.30, 13.30, 17.45, 22.30, 00.25, 01.30, 02.30, 03.55 – **T.S.:** On the h and half h.

INTERNATIONAL SERVICE

TO EUROPE		**Language**	**kc**
D	04.30–05.30	**Russian**	9745, 11915, 15115
D	05.30–06.30	**German**	11915, 15115
D	05.30–06.00	**Swedish**	9745
D	06.00–06.30	**Spanish**	9745
Sun	09.30–10.00	**Swedish**	6050, 9745, 11915, 15115
a)	18.30–19.00	**Swedish**	15115, 17890
a)	19.00–20.30	**English g)**	15115, 17890
a)	20.30–21.00	**Spanish**	11915, 15115
a)	21.00–21.30	**German**	11915, 15115
a)	21.30–22.00	**Swedish**	11915, 15115
D	22.00–22.30	**English g)**	11915, 15115
D	23.30–24.00	**English b)**	11915, 15115

N.: (English) 19.00 – **Mbg. (English):** Sun 23.30.

TO EUROPE/U.K. SO. PACIFIC			
D	06.30–09.30	**English c)**	6050, 9745, 11915, 15115
W	09.30–10.00	**English c)**	6050, 9745, 11915, 15115
D	10.00–10.30	**Russian**	6050, 9745, 11915, 15115

Mbg.: Fri 07.00.

TO NO. & SO. AMERICA			
D	10.30–14.00	**Spanish**	6050, 9745, 11915, 15115
D	14.00–15.00*	**English d)**	15115, 17890
Sun	16.00–17.00	**Russian**	15115, 17890
D	22.30–23.00	**Russian**	15115, 17890
D	23.00–23.30	**German**	15115, 17890
D	23.30–24.00	**English b)**	15115
D	00.00–02.00	**Spanish**	9745, 11915, 15115
D	02.00–04.30	**English e)**	9745, 11915, 15115

*) Sun 14.00–16.00, Mo 14.00–15.30, Sat 14.00–16.30 – **N.:** English 14.00.

DX-Party Line: First Mo of the month: 02.00–03.00 – **Mbg.:** English Wed 03.30, first Mo of the month 02.00 – **L.L.:** Spanish by Radio: Thurs 03.30.
a) D exc. Mo; b) "Caribbean Call"; c) "Southern Cross Salute"; d) "Morning in the Mountains"; e) "Ecuadorean Echoes"; g) "Quito Calling".
Time Sig.: Automatically on h and half h. Tree short tones followed by a long tone at the exact min. – **ANN.: E.:** "This is sixty tousand watt radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our international audience on the 19, 25 and 31 m.b. The time in Quito is... the same as... GMT. This is radio station HCJB Quito, Ecuador, South America". – **V.** Listeners reports are wanted – these are studied by our engineers. If requested they are answered by QSL-card, in other by letter – **PUB.:** Int prgr.sched. free on request. "Call of the Andes" magazine, free to those requesting it from: HCJB: Box 691, Miami 47, Florida, USA. Sched. of Spanish prgrs. Internat. prgr. sched.
74) Apt. 288, Quito – 75) Apt. 30, Tulcan. **L.P.:** Dir.: A. Baez. **ANN.:** La Voz de la simpatia popular". **V.** by letter. Re. in Sp. Prgr.-sched. on request.
76) Cuenca – **L.P.:** Dir.: M. Merchan.
77) Soc. Distribuidora Co. S.A., La Urdesa, Guayaquil.
78) Apt. 63, Cuenca – **L.P.:** Dir. Gen.: J. C. Salazar. Dir. Tec.: S. Guerrero – **ANN.:** "Esta es Ondas del Perpetuo Socorro, transmitiendo en su frecuencia de 6095 kc, banda de 49 metros, desde Cuenca Ecuador" – **V.** by letter. Re. in Sp. Prgr.sched. on request.
79) Sindicato Choferes, Portoviejo.
80) T. Martinez 209, Guayaquil – **L.P.:** Dir.: P. de Levi.
81) Boyaca 1205, Guayaquil – 82) Cas. 726, Azoguez – **V.** by letter.
83) Quito – **L.P.:** Dir.: Pdre. J. Uriarte.
84) Colegio San Gabriel, Quito – 85) Babahoyo. **L.P.:** Dir.: J. Pazos.
86) Cas. 94, Ambato. **Te.:** 2120 – **L.P.:** Dir. Gen.: F. Bermudez – **ANN.:** "Sintonizan Radiodif. Paz y Bien", la mensajera de Religion, Arte y Cultura, operando en banda internacional de 49 metros y en banda local de 221 mts., desde Ambato, capital de la Provincia del Tungurahua en el Ecuador" – **INT.-SIG.:** Gong – **V.** by letter.
87) Consejo Municipal, Vinces – 88) Loja. **L.P.:** Dir.: C. Luzuriaga.
89) P.O. Box 261, Ambato – **V.** by letter.
90) Cas. 196, Loja. **Cable:** Racentisur – **L.P.:** Dir. Gen.: J. Coronel I. Dir. Tec.: F. E. Coronel – **D. PRGR.: N.:** 12.00, 17.45, 01.00 – **ANN.:** "Desde Loja, Capital de la Provincia de Loja, transmite R. Centinela del Sur en 49 metros, banda internacional con 3000 watios de potencia" – **V.** by letter, and postcards from Loja. R. in Sp., E. – **F.PL.:** 5 kW tr. on 1500 kc.
91) Latacunga – **L.P.:** Dir.: V. H. Muñoz – 92) Zaruma.
93) Cas. 204, Guayaquil. **Te.:** 12295 – **L.P.:** Dir. Gen.: V. Paladines P. Dir. Tec.: F. Casal M – **D. PRGR.: N.:** 11.00, 13.00, 18.00, 23.15, 01.00, 04.00.
Medium Waves:
94) **R. San Pedro,** Amaguaña – 95) **R. Rey,** Quito.
96) **R. Reloi,** 5 de Junio, Guayaquil.
97) **R. Huancavilca,** Guayaquil – 98) **Cultura Municipal,** Quito
99) **R. Centenario,** Guayaquil – 100) **R. La Prensa,** Guayaquil.
101) **R. Umiña,** Manta – 102) **R. Portoviejo,** Portoviejo – 103) **R. Atalaya,** El Milagro – 104) **R. Tricolor,** Ambato.
105) **La Voz del Santisimo,** 6 de Marzo 1004, Guayaquil.
106) **R. Ecuatoriana,** Quito – 107) **La Voz del Nacionalismo,** Jipijapa.
108) **R. Cristal,** Guayaquil. **L.P.:** Dir.: A. Romero – 109) **Ondas del Chimborazo,** Riobamba.
110) **La Voz del Rio Guayas,** Av. de Ejercito 116, Guayaquil.
111) **R. Mejia,** Machachi – 112) **Ondas Orenses,** Machala.
113) **R. Colón,** Colón 1072, Quito.
114) **La Voz Liberal,** 8 y 9 de Oct., La Libertad, Guayaquil.
115) **Union Evangelica Misionera,** Colta – 116) **R. Cronos,** Quito.
117) **R. Ifesa,** Cia Industrial S.A. Guayaquil.
118) **La Voz de los Rios,** Babahoyo – **L.P.:** Dir.: C. Baquerizo.
119) **R. Cosmopolita,** Ambato 1142, Quito – **L.P.:** Dir.: N. Castro.
120) **Ondas del Pacifico,** Colón 234, Guayaquil.
121) **R. El Prado,** Riobamba – 122) **La Voz de la Verdad,** Plaza de Santo Domingo, Quito – 123) **La Voz del Pueblo,** Riobamba.
124) **La Voz del Valle,** Machachi – 125) **R. Libertad,** Rocafuerte 1037, Quito.
126) **R. Noticia,** Vélez 534, Guayaquil – 127) **R. Sucesos,** Quito.
128) **R. Amazonas,** Quito – 129) **R. América,** Luque 910, Guayaquil.
130) **Rio Amazonas,** Macuma – 131) **R. Luz,** Ambato.
132) **Emisoras, Tribuna del Sur,** Cuenca – 133) **R. Nuevo Mundo,** Quito – 134) **R. Central,** Riobamba.
135) **R. Central,** Maldona Villa 1 (Pasaje del Seguro), Quito.
136) **R. Excelsior,** Luque 1102, Guayaquil – 137) **R. Turismo,** Sangolqui.
138) **R. Atlántida,** Cas. 1020, Quito. **Te.:** 13751 – **L.P.:** Dir. Gen.: G. U. Ordoñez. Dir. Tec.: V. Ordonoz P. – **D.PRGR.:** W 11.00–04.00. **N.:** 11.00, 00.00 – **ANN.:** "Desde Quito, Ecuador, transmite radiodifusora Atlántida, una Voz ecuatoriana en el cielo de America 1210 kc" – **V.** by letter – **F.PL.:** 5 kW sw-tr. July 63.
139) **R. Metropolitana,** Av. Colombia 256, Quito – **D.PRGR.:** 11.30–14.00, 16.30–04.00 – **N.:** 12.00, 03.00 – **ANN.:** "Desde Quito-Ecuador, pais amazonico, transmite R. Metropolitana. Nuestra maxima aspiracion, satisfacer su buen gusto" – **V.** by QSL-card.
140) **La Voz del Litoral,** Junin 206, Guayaquil.
141) **R. Universal,** Bolivia 715, Guayaquil.
142) **R. Cenit,** Av. 9 de Octubre, Guayaquil.
143) **R. Continental,** "La Voz de la Sierra Ecuatoriana", Ambato.
144) **R. Juan, Montalvo,** Ambato – 145) **R. El Tiempo,** Guayaquil 1542, Quito – 146) **La Voz de Esmeraldas,** Esmeraldas – 147) **R. Continental,** Colón 520, Guayaquil – 148) **R. Tropical,** Manta – 149) **R. Guayaquil,** Lavallén 222, Guayaquil.
150) **R. Nueva Ortiz,** Esmeraldas 1912, Guayaquil – 151) **R. Puruha,** Riobamba.
152) **R. Cordillera,** Apt. 1003, Quito. **L.P.:** Dir.: Ing. Villamar – **V.** by letter – 153) **R. Panamericana,** Benalcazar 697, Quito.
154) **R. Exito,** Chile y Benalcázar, Quito – 155) **R. El Sol,** Machachi.

FALKLAND ISLANDS (British)

L.T.: GMT÷4 h – **Pr.L.:** English.
FALKLAND ISLANDS BROADCASTING SERVICE (Go.)
The service is designed primarily for the people of the Falkland Islands, but also South Georgia and the British Antarctic Territory many miles to the south, where there are isolated British Bases in Graham-land, the South Shetland and South Orkney Islands.
FI.: By license payments and Go. grant – **ADDR.:** Broadcasting Studios, Stanley. **Cable:** Broadcasts. **Te.:** 90 – **L.P.:** Dir.: Ch. T. Reive.
STATIONS: 585 kc 513 m 5 kW – 3958 kc 75.79 m 0.5 kW
HOME SCE.: W 22.45(Sat 21.30)–01.00(Sat 02.00). Sun 21.45–01.30. **N.:** 23.00 (BBC), 23.30 (Fri) – **ANN.:** "This is the Falkland Islands Broadcasting Station" – **V.** by letter. Reports from So. America only.

GUIANA (British)

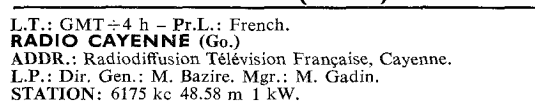
L.T.: GMT÷3¾ h – **Pr.L.:** English.
BRITISH GUIANA BROADCASTING CO. LTD. (Comm.)
FI.: By adv. – **ADDR.:** Broadcasting House, St. Philip's Green, High Street, Georgetown. **Cable:** Broadcast. **Te.:** 2691.
L.P.: Dir. Tec.: E. R. McDowell.
STATIONS: ZFY R. Demerara and B.G.B.S.

560 kc	536 m	10 kW	–	3265 kc	91.87 m	2 kW	
760 –	395 –	10 –	–	5980 –	50.17 –	2 –	

BGBS: 560 kc: W 09.45–12.45, 20.45–01.50. Sun 10.45–01.50.
ZFY: 760 kc: 09.15(Sun 09.45)–02.45(Sat 03.45). **3265 kc:** 19.45–02.45(Sat 03.45). **5980 kc:** 09.15(Sun 09.45)–19.45.
N.: (English): **ZFY:** 10.15 (W), 11.15 (W), 16.10, 20.10 (W), 22.00, 23.10, 00.45, 02.43.
BGBS: N. (Hindustani): 09.50, 10.45, 11.45, 12.45, 20.45, 21.45, 22.45, 23.45, 00.45.
ANN.: On 560 kc: "This is B.G.B.S. the British Guiana Broadcasting Service". On 760, 3265, 5980 kc: "This is R. Demerara, British Guiana" – **V.** by QSL-card.

GUIANA (French)

L.T.: GMT÷4 h – **Pr.L.:** French.
RADIO CAYENNE (Go.)
ADDR.: Radiodiffusion Télévision Française, Cayenne.
L.P.: Dir. Gen.: M. Bazire. Mgr.: M. Gadin.
STATION: 6175 kc 48.58 m 1 kW.
HOME SCE.: Mo–Fri 10.15–11.15, 16.45–17.45, 22.30–01.10. Sat 10.15–11.15, 16.30–18.00, 22.30–02.00. Sun 11.00–14.00, 16.00–18.00, 22.30–02.00. **N.:** 10.30, 01.50 – **Wrp.:** 23.00.
ANN.: "Ici Cayenne, Radiodiffusion Télévision Française".
INT.-SIG.:



V. by QSL-card.

PARAGUAY

L.T.: GMT÷4 h – **Pr.L.:** Spanish.
ADMINISTRACION NACIONAL DE TELECOMUNICACIONES
ADDR.: Administracion General, Casilla de Correo 84, Asunción. **Cable:** Antelco. **Te.:** 4001.
STATIONS: All st.'s comm. exc. R. Nacional. *=inactive.
Short Waves: Call: ZP–

	Call	kc	m	kW	Name and h of tr.
1)	A6	5975	50.21	3	R. Guaira, Villarrica: 12.00–18.00, 21.00-03.00

Call	kc	m	kW	Name and h of tr.
2) A10	6015	49.88	1	R. Paraguay, Asuncion: 10.00–19.00, 20.00–02.00
3) A1	6025	49.79	3	R. Nacional, Asuncion: 11.00–17.00, 20.00–02.00
4) A11	6110	49.10	1	R. Charitas, Asuncion: 15.00–01.00
5) A3	11850	25.32	3	R. Teleco, Asuncion: 14.00–23.00
6) A5	11945	25.12	3	R. Encarnación: 11.00–14.00, 16.00–24.00
7) A7	15210	19.72	3	R. Guarani, Asuncion: 12.00–16.00, 19.00–03.00

Medium Waves: Call: ZP–. °=Short Waves. ¹=also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
8) 15	560	0.25	6) 5	°900	5	2) 10	°1300	1.5
*)	700	10	3) 1	°920	10	1) 6	°1360	1.5
7) 7	°730	1.5	10) 9	970	1.5	5) 3	°1430¹	1
9) 14	870	5	4) 11	°1200	1.5	11) 8	1480	1

*) under construction.

Short Waves:

1) Alejo Garcia y Pte. Franco, Villarrica. **Te.:** 85 – **L.P.:** Dir.: E. Traversi V. – **ANN.:** "ZP6 y ZPA6 R. Guaira, Voz de Progreso y Cultura" – **V.** by QSL-card or letter.

2) Av. Dr. Caspar R. de Francia 123, Asunción – **L.P.:** Dir. Gen.: G. H. Mora. Dir. Tec.: P. Pereira – **V.** by QSL-card. R.p.

3) Cnel. Martinez 224, Asunción – **L.P.:** Dir. Gen.: A. Caceres Almada. Dir. Tec.: P. Pereira – **D.PRGR.:** **N.:** 16.30, 23.30, 02.30 – **ANN.:** "ZP1 y ZPA1 R. Nacional del Paraguay" – **V.** by letter.

4) L. A. de Herrera 124–140, Asuncion.

5) Av. Gral Artigas y Bañado, Asunción – **L.P.:** Dir.: P. A. Garcia A. **ANN.:** "ZP3 y ZPA3, Radio Teleco, Asunción, Republica del Paraguay" – **V.** by letter.

6) Encarnación – **L.P.:** Dir.: A. Vera – **V.** by letter.

7) Independencia Nacional 603, Asunción. **Te.:** 6393 – **L.P.:** Dir.: M. A. Rodriguez. Dir. Tec.: M. Saccarello – **V.** by letter.

Medium Waves:

8) **La Voz del Amambay,** Pedro Juan Caballero – **D.PRGR.:** 10.30–11.30, 14.00–17.00, 22.00–01.00.

9) **R. Nanduti,** Asunción.

10) **R. Comuneros,** Estados Unidas 69a, Asunción – **D.PRGR.:** 09.00–03.00.

11) **R. Ypir,** Concepción – **D.PRGR.:** 11.00–17.00, 21.30–02.00.

PERU

L.T.: GMT÷5 h – **Pr.L.:** Spanish.

CORREOS Y TELECOMMUNICACIONES DEL PERU
ADDR.: Departamento de Radio, Lima. **Te.:** 7-9381.

ASOCIACION NACIONAL DE RADIO EMISORAS DEL PERU
ADDR.: Av. Tacna 543, 95, Lima. **Te.:** 32 270 – **L.P.:** Pres.: N. Gonzales V.

STATIONS: All st's comm. exc. 48, 54, 98 (Go.), 10, 21, 26, 29, 34, 40, 58, 67, 87, 92, 103, 111, 112 (Cul.).

Short Waves: *=inactive.

Call	kc	m	kW	Name	H. of tr.
1) OBX7D	3230	93.00	0.4	R. el Sol, Juliaca	
2) OAX2C	3230	93.00	2	R. Trujillo	12.00–05.30
3) OBX4U	3240	92.59	1	R. América, Lima	13.00–06.00
4) OAZ4G	3250	92.31	0.4	R. La Oroya¹	
5) OBX1E	3280	91.40	1	R. Chulucanas	
6) OAX1M	3330	90.09	1	R. Progreso², Piura	
7) OAX5J	3350	89.55	1	R. Independencia¹, Ica.	
8) OAX3D	3360	89.29	0.5	R. Huánuco¹	
9) OAX3G	*3890	–	0.5	R. Chimbote¹	
10) OAX7O	3960	75.76	0.5	R. Madre de Dios, Puerto Maldonado	23.00–06.00
11) OCX4W	4762	63.00	0.25	R. Inca, Lima	24 h
12) OAX2G	4770	62.89	0.5	R. Cajamarca¹	
13) OAX3E	4808	62.40	0.5	R. Huaraz¹	
14) OBX1C	*4815	62.31	1	R. La Voz de la Frontera, Tumbes	
15) OAX5U	4815a	62.31	1	R. Huancavelica	17.00–04.45
16) OAX1O	*4820	62.24	1	R. Chiclayo²	
17) OAX7T	4835	62.05	0.35	R. Sicuani	
18) OAX1X	4845	61.92	1	R. Chira, Sullana	
19) OCX4B	4850	61.86	0.5	R. Callao¹	12.00–05.00
20) OAX81	*4855	61.79	0.5	R. La Hora¹, Iquitos	
21) OCX4T	4870	61.60	0.5	R. Cultural, Huancayo	
22) OCX4E	4880	61.48	1	R. Once Sesenta, Lima	12.00–05.00
23) OAX5V	4885	61.41	1	R. Villarica, Huancavelica	
24) OAX2K	4910	61.10	0.3	R. Libertad, Trujillo	11.55–04.00
25) OAX2H	*4920	60.98	0.5	R. La Hora¹, Trujillo	
26) OAX5Q	4934	60.80	0.25	R. Cultural, Abancay	
27) OAX6N	4940	60.73	0.5	R. Misti¹, Arequipa	12.00–04.30
28) OAZ4I	*4945	60.67	0.4	R. Huacho¹	
29) OAX5S	4955	60.54	0.25	R. Amauta, Ayacucho	17.30–23.30
30) OAX1S	4960	60.48	0.5	R. Lambayeque¹, Chiclayo	11.15–05.00
31) OAZ4C	4995	60.06	1	R. Andina¹, Huancayo	11.00–05.00
32) OAX5O	*5010	59.88	1	R. Pisco	
33) OAX8V	5010	59.88	0.4	R. Eco, Iquitos	
34) OAX5R	5020	59.76	0.15	R. San Cristobal, Ayacucho	
35) OAX7Q	5025b	59.70	0.3	R. Quillabamba	
36) —	5030c	59.64		R. Ayaviri, Ayaviri	
37) OAX1J	5050	59.41	1	R. Tumbes¹	
38) OAZ4A	5058	59.32	0.5	R. Tarma	
2) OAX2A	5225	57.42	2	R. Trujillo	12.00–05.30
15) OAX5X	5440	55.15	1	R. Huancavelica	
16) OAX1O	5680	52.78	1	R. Chiclayo²	12.00–05.00
39) OAX7Z	5800f	51.72	0.5	R. Juliaca	12.00–14.00 17.00–19.00, 22.00–04.00
40) OCX4R	5830d	51.45	0.1	R Industrial, La Oroya	
41) OAX7K	5838	51.39	0.5	R. Puno¹	01.00–04.00
42) OAX6E	5930	50.57	1	R. Continental, Arequipa	11.00–06.00
43) OAX4P	5950	50.42	0.5	R. Huancayo	11.30–04.30
44) OAX7L	5960e	50.34	1	La Voz del Altiplano, Puno	
45) OAX6A	5960	50.34	0.3	R. Arequipa	12.00–04.30
46) OBX4Q	5970	50.25	10	R. El Sol, Lima	11.00–05.00
47) OBX4M	5980	50.17	5	R.Panamericana, Lima	12.00–06.00
3) OAX4V	5995	50.08	3	R. América, Lima	13.00–06.00
48) OAX7E	6000	50.00	1	R. Nacional, Puno	12.00–05.00
49) OAX4Q	6010	49.92	3	R. Victoria¹, Lima	11.00–06.00
48) OAX8B	6028	49.77	1	R. Nacional, Iquitos	12.00–05.00
50) OAX6B	6038	49.69	0.5	R. Landa, Arequipa	12.00–05.00
51) OAX8L	6062	49.48	1	R. Telesar, Pucallpa	12.00–14.00 16.00–19.00, 23.00–03.00
52) OAX4S	6070	49.42	0.3	R.Onda Popular, Lima	24 h
48) OAX4Z	6082	49.32	10	R. Nacional, Lima	12.00–05.00
53) OAX1T	6100	49.18	1	R. Grau¹, Piura	11.30–05.00
48) OAX6F	*6105	49.14	1	R. Nacional, Tacna	
54) OAX4H	6115	49.06	0.3	R. Mundial, Lima	12.30–05.00
55) OBX4Z	6115	49.06	1	R. Luz, Lima	12.00–05.00
56) OCX4A	*6123	49.00		R. La Crónica, Lima	
57) OCX4M	6135	48.90	0.3	R. Pasco, Cerro de Pasco	
58) OAX9B	6140	48.86		R. Amazonas, Chacapoyas	
59) OBX4G	6150	48.78	0.5	R. Excelsior, Lima	12.00–05.00
60) OCX4G	6160	48.70	1	R. Mundo, Huancayo	11.00–05.00
6) OAX1N	6170	48.62	1	R. Progreso, Piura	12.00–05.00
61) OBX4B	6170	48.62	0.3	R. Corporación, C. de Pasco	10.00–05.00
62) OAX7C	6175	48.58	0.3	R. Tahuantisuyo, Cuzco	
63) OAX4G	6190	48.47	0.3	R. Lima	12.00–07.00
64) OAZ4E	6195h	48.43	0.5	R. Mineria, La Oroya	
65) OAX1B	6198	48.40	0.25	R. Piura	12.00–05.00
66) OAX7A	6200	48.39	1	R. Cuzco	23.00–05.00
67) OAX6I	6235	48.10	1	R. Universidad, Arequipa 12.00–18.00,	22.30–03.30
68) OBX4P	6300	47.62	0.75	R. Miraflores, Lima	13.00–05.00
69) OAX1A	6700	44.74	0.3	R. Delcar, Chiclayo	24.00–05.30
42) OAX6D	9350	32.09	1	R. Continental, Arequipa	11.00–06.00
56) OAX4J	9390	31.90	1	R. La Crónica, Lima	11.00–07.00
3) OAX4W	9412	31.86	1	R. América, Lima	13.00–06.00
70) OAX6H	9500	31.58	0.25	R. Tacna	10.30–05.20
71) OAX8E	9504	31.57	1	R. Loreto, Iquitos	11.00–05.00
48) OAX6L	9530	31.48	1	R. Nacional, Tacna	12.00–05.00
20) OAX8I	9540	31.45	0.5	R. La Hora, Iquitos¹	
72) OAX4K	9545	31.43	0.5	R. Central, Lima	12.00–06.00
48) OAX1Z	9550	31.41	2	R. Nacional, Tumbes	12.00–05.00
48) OAX4R	9562	31.37	40	R. Nacional, Lima	12.00–05.00
48) OAX7F	9570	31.35	1	R. Nacional, Puno	12.00–05.00
73) OAX8Q	9577	31.33	0.4	R. Pucallpa	
74) OAX4K	9585	31.30	0.75	R. Selecta, Lima¹	13.00–04.30
75) OAX5C	9590	31.28	1	R. Ica¹	11.00–04.00
76) —	9600	31.25		R. Ayacucho¹	
77) OAX1R	*9600	31.25	0.3	R. Talara¹	
48) OAX8C	9610	31.22	1	R. Nacional, Iquitos	12.00–05.00
1) OBX7E	9618	31.19	0.4	R. el Sol, Juliaca	
78) OAX8K	9625g	31.17	1	R. Atlántida, Iquitos	11.00–05.00
79) OCX4K	9635	31.14		R. Expresso, Lima	12.00–05.00
33) OAX8U	9665	31.04	1	R. Eco, Iquitos	
11) OCX4W	9675	31.01	0.25	R. Inca, Lima	11.00–06.00
80) OBX4Y	9680	30.99	0.5	R. Junin, Huancayo¹	11.15–04.45
81) OCX4Y	9695	30.94	1	R. Continente, Lima	11.30–06.00
82) OAX9D	9710	30.90	1	R. Tropical, Tarapoto	11.30–04.45
83) OAX7J	*9730	30.83	0.5	R. La Hora, Cuzco¹	
84) OAX8O	9770	30.71	1	R. Amazonas, Iquitos	
48) OBX4R	*11914	25.18	10	R. Nacional, Lima	
48) OAX4T	15150	19.80	40	R. Nacional, Lima	irr.
46) OBX4C	15180	19.76	0.5	R. El Sol, Lima	11.00–05.00

Peru

48) OBX4T *21600 13.89 10 R. Nacional, Lima
a actually on 4990 kc – b actually on 530. kc – c actually on 5700 kc – d *actually on 5960 kc* – e *actually on* 5808 kc – f actually on 4862 kc – g reported on 5180 kc also – h actually on 6204 kc.

Medium Waves: °=Short Waves.

Call		kc	kW	Call		kc	kW
85)	OCX4S	580	0.15	30)	OAX1I	°1300	1
55)	OBX4L	°590	10	39)	OAX7H	°1300	0.3
86)	OAX2M	620	0.4	56)	OAX4I	°1320	10
87)	OAX7W	620	1	95)	OAX1F	1320[2]	1
15)	OAX5T	°620	1	82)	OAX9C	°1340	1
32)	OAX5P	°620	1	96)	OAX5D	1340	0.3
42)	OAX6C	°690	2	76)	OAX5H	°1340	0.5
4)	OAZ4F	°690	0.4	16)	OAX1E	°1340	1
9)	OAX3F	°690	0.5	59)	OAX4Y	°1360	3
88)	OBX4S	730	1	17)	OAX7H	°1360	0.35
7)	OAX5E	°730	0.5	97)	OAX3H	1370	1
89)	OAX2J	730	1	98)	OAX8G	1370	0.5
65)	OAX1Y	°750	0.3	99)	OAX5I	1370[1]	0.5
49)	OAX4X	°780	10	100)	OAX5F	1370[1]	
90)	OAX4O	820	1	80)	OBX4V	°1370	1
48)	OAX4A	°854	20	12)	OAX2D	°1370	0.5
6)	OAX1D	°890	1	37)	OAX1G	°1370	1
46)	OBX4X	°900	10	71)	OAX8D	°1380	1
72)	OAX4E	°930	5	19)	OBX4W	°1400	2.5
47)	OAX4D	°960	10	50)	OAX6J	°1400	1
25)	OAX2F	°980	1	83)	OAX71	°1400	1
79)	OBX4J	°985	5	101)	—	1430[1]	0.5
3)	OAX4U	°1010	10	81)	OCX4X	°1440	1
52)	OBX4O	°1030	1	14)	OBX1B	°1450	
44)	OAX7N	°1030	0.25	18)	OAX1V	°1460	1
48)	OAX8A	°1030	1	8)	OAX8C	°1460	1
27)	OAX6L	°1050	1	1)	OAX7W	°1460	1
54)	OAX4F	°1080	3	102)	OAX5K	1460	1
5)	OBX1D	°1080	1	11)	OBX4E	°1470	1
91)	OAX7S	1080	0.8	43)	OCX4D	°1470	1
84)	OAX8N	°1080	1	66)	OAX7G	°1470	0.1
2)	OAX2B	°1095	2	70)	OAX6K	°1470	0.5
48)	OBX4A	*1120	–	20)	OAX8H	°1470	1
74)	OAX4N	°1130	3	103)	OBX4J	1490	
41)	OAX7H	°1130	1	57)	OCX4P	°1490	0.3
77)	OAX1Q	°1130	1	78)	OAX8J	°1490	1
22)	OAX4C	°1160	5	25)	OAX5L	°1490	0.25
48)	OAX7D	°1160	1	104)	OAX5N	1490	0.5
48)	OAX1K	°1160	2	67)	OAX6M	*1510	
13)	OAX3B	°1160	0.5	105)	OCX4V	1510	1
24)	OAX2C	°1160	0.3	106)	OCX4J	1510	0.1
48)	OAX6D	1165	0.35	107)	OAX2L	1510	0.25
63)	OAX4B	°1200	1	108)	OBX4D	1520	1
62)	OAX7B	°1200	0.3	109)	OAX7P	1520	0.35
92)	OAX8M	1200	0.5	64)	OAZ4D	°1520	0.5
48)	OCX4Z	*1225	3	31)	OAZ4B	°1520	1
53)	OAX1H	°1240	2	69)	OAX1C	°1520	1
73)	OAX8P	°1250	0.4	61)	OBX4N	°1540	0.35
68)	OAX4L	°1250	2	110)	OAX6Q	1540	0.5
75)	OAX5B	°1270	1	111)	OAX7U	1560	0.35
33)	OAX8T	°1270	1	112)	OAX7V	*1570	
28)	OAZ4H	°1270	1	15)	OAX5M	°1580	0.15
93)	OAX4M	1300	1	60)	OCX4F	°1580	1
94)	OAX6P	1300	0.4	23)	—	°1580	

FM: 46) OBX4F 90.1 Mc 0.25 kW – 48) OCX4N 97.0 Mc 0.05 kW – 46) OCX4O 98.0 Mc 0.05 kW – 113) OCX4U 100 Mc – 88) OCX4Q 103.5 Mc.

[1] belongs to Cadena Nacional – [2] belongs to Emisoras Nacionales.

Short Waves:

1) Juliaca – **L.P.**: J. Cornejo P.

2) Almagro 349, Trujillo – **L.P.**: Dir. J. Castro – **ANN.**: "La Voz del Norte del Peru" – **V.** by letter.

3) Equina Montero Rosas y Mariano Carranza, Lima – **L.P.**: Mgr.: N. Gonzales – **ANN.**: "La Voz del Nuevo Mundo, desde Lima".

4) Ca. Tarma 195, La Oroya – 5) Chulucanas – 6) Ica 419, Piura.

7) Independencia 339, Ica – 8) Huánuco.

9) Bolognesi No. 513, Chimbote – **ANN.**: "R. Chimbote, la emisora de los nigores programas".

10) Vicario Apostolico, Puerto Maldonado – **L.P.**: Dir. Gen.: J. Barriales. Dir. Tec.: T. Guerrero – **D. PRGR.**: N. 00.30 – **ANN.**: "Emisora Madre de Dios OAX7O 3960 kc desde sus estudios en Puerto Maldonado, Emisora Cultural al servicio de la Iglesia Católica" –**V.** by letter. Re. in Sp.

11) Av. Wilson 1191, Lima – 12) Plaza de Armas, Cajamarca.

13) Jirón Cuzco 107, Huaraz – 14) Alfonso Ugarte 12, Tumbes.

15) Huancavelica – **L.P.**: F. Cruz M. – **ANN.**: "OAX5M 1510 kc y OAX5U 4815 kc, *transmite* R. Huancavelica, una voz del corazón de los Andes, desde Huancavelica, Perú".

16) Balta 618, Chiclayo – **ANN.**: "La Emisora Más Popular del Norte".

17) Plaza de Armas 106, Sicuani – **ANN.**: "R. Sicuani, la Voz de Canchis" – 18) Sucre 556, Sullana.

19) *Cólon 260, Callao* – **L.P.**: Mgr.: C. Bovadilla. Dir. Tec.: E. Lastarria – **D. PRGR.**: 12.00–05.00 – **ANN**: "OBX4W 1400 kc y OCX4B 4850 kc transmite Nueva R. Callao, La Voz del Primer Puerto del Perú" – **V** by letter.

20) San Martin 126, Iquitos – **ANN.**: "La Voz de la juventud loretana en el cielo amazónico" – 21) Casilla 245, Huancayo.

22) Av. Alfonso Ugarte 980, Lima – **ANN.**: "R. Once Sesenta, la primera emisora dedicada a la mujer" – 23) Huancavelica.

24) Bolivar 437, Trujillo – **ANN.**: "R. Libertad, la voz del pueblo y de la juventud" – 25) Zepita 439, Trujillo – **ANN.**: "R. La Hora, la emisora de los éxitos".

26) Concejo Provincial de Abancay, Abancay – 27) *Palacio Viejo 106*, Aptd. 657, Arequipa – **L.P.**: Mgr. R. Zúñiga G. – 28) Av. Echenique 140, Huacho.

29) Cas. 24 Huanta, Ayacucho – **L.P.**: Dir. M. E. Cueva Tafur – **ANN.**: "Radio Amauta, Estación Cultural en Huanta, Perú".

30) Balta 413, Chiclayo.

31) Ca. Real 319, Chilca, Huancayo – **L.P.**: Dir. F. Cruz M. Dante Altamirano – **ANN.**: "Del Centro Urbano más importante transmite Radio Andina" – **V.** by letter – 32) Av. Ocho de Setiembre 210, Pisco.

33) Ca. 170, Iquitos – **L.P.**: Dir. F. Reátegui S.

34) Obispado de Ayacucho, Pasaje Protzel, Ayacucho – **ANN.**: "Desde *Ayacucho, Radio San Cristobal de Huamanga*".

35) Espinar 354, Quillabamba – **L.P** : Dir. Carlos Lizárraga.

36) Ayavari, Dept. of Cuzco – 37) Plaza de Armas, Tumbes – **ANN.**: "La Voz de la Juventud" – 38) Jirón Huaraz 198, Tarma.

39) Ca. 9 de Diciembre 199, Juliaca – **L.P.**: Dir. Gen.: J. E. Zea Gonzales. Dir. Tec.: V. Urviola – **ANN.**: "Desde el Corazón de los Andes" – **V.** by letter.

40) Gran Mariscal Ramón Castilla, Arequipa 201, La Oroya.

41) Arequipa 100, Puno – **L.P.**: Dir. Gen.: J. E. Zwa Gonzales. Dir. Tec.: R. Laso V. – **ANN.**: "La Emisora de los Mejores Programas" or "La Voz del Departamento más poblado del Perú" – **V.** by QSL-card.

42) Rivera 101, Arequipa – **L.P.**: Mgr.: J. A. Umbert – **ANN.**: "OAX6C, OAX6D y OAX6E Emisoras de Radio Continental de Arequipa".

43) Cas. 187, Huancayo – **L.P.**: Dir. A. Elejalde G. – **ANN.**: "La Voz del Centro del Perú" or "OCX4D y OAX4P, R. Huancayo La Voz del Centro del Perú".

44) Aptdo. 130, Puno – **L.P.**: Dir.: Juan E. Gonzales – **ANN.**: "En el corazón de los Andes usted escucha la emisora de los grandes exitos" or "OAX7L, 5960 kc y OAX7N, 1030 kc. Emisoras de la Voz del Altiplano desde Puno, República del Perú".

45) Aptdo. 657, Arequipa – **L.P.**: Mgr.: Rufino Zúñiga G. – **ANN.**: "La Voz del Misti" – 46) J. Galvez 1040, Lima.

47) Av. Arequipa 1110, Lima – **L.P.**: Dir.: H. Delgado Parker. Dir. Tec.: M. Flores – **ANN.**: "Sabe quién transmite? R. Panamericana" or "Panamericana, ciudad de Lima" – **V.** by letter.

48) P. Thourars 441, Lima – **L.P.**: Dir. Gen.: R. Ortiz B. Mgr.: R. Raggio. Dir. Tec.: R. Pflucker – **D.PRGR.**: m.w. 11.45–05.00 – N.: on the h – **ANN.**: "R. Nacional del Perú, la Primera Emisora del Pais". **V.** by QSL-card and letter.

49) Paseo de la Repùblica, Lima – **L.P.**: Mgr.: J. E. Cavero. Dir. Tec.: E. Lastarria – **INT.-SIG.**: First movement of Beethoven's 5th Symphony – **V.** by letter.

50) Sucre 409, Arequipa – **L.P** : Dir.: Max J. Landa – **V.** by QSL-card.

51) Raymondi 463, Pucallpa – **L.P.**: Dir.: A. Chaque – **ANN.**: "Radio Telesar, La Voz del Progreso y Cultura" – **V.** by letter.

52) Huallaga, 515, Lima – **L.P.**: Dir. Gen.: P. Tello. Dir. Tec.: G. Rojas – **ANN.**: "Radio Onda *PO-PU-LAR*".

53) Cuzco 850, Piura – **L.P.**: Dir. J. Girón S.

54) Unión 733, Lima – **L.P.**: Dir.: M. Luna. Dir. Tec.: Dante Capella.

55) Tacna 543, Lima – **L.P.**: Dir. W. R. Quintas – **ANN.**: "Radio Luz, la primera emisora del dial" – **V.** by QSL-card.

56) Tacna 665, Lima – **L.P.**: Dir. Gen.: J. Silva.

57) Aptdo 128, Cerro de Pasco – **L.P.**: Dir.: L. Rosazza – **ANN.**: "Radiodifusora Cerro de Pasco S.A. Afiliada a la Federación Peruana de Radiodifusión y Cadena Nacional de Emisoras".

58) Chachapoyas.

59) Camaná 975, Lima – **L.P.**: Dir.: A. Belmont. Dir. Tec.: J. Fartan – **ANN.**: "*Transmite* R. *Excelsior la Emisora más Criolla del Perú*".

60) Cas. 426, Huancayo – **L.P.**: Dir.: M. Guanay G. – **V.** by letter.

61) Aptdo 19, Cerro de Pasco – **ANN.**: "La Voz de Cerro de Pasco".

62) Av. Sol, Cuzco – **L.P.**: Dir.: R. Montesinos – **ANN.**: "La Emisora de los Grandes Exitos".

63) Nicolas de Piérola 533, Lima – **L.P.**: Dir.: O. Dianderas.

64) Dario León 313–538, La Oroya – **L.P.**: Dir. F. Cruz M. – **ANN.**: "Desde el Corazón de los Andes".

65) Tacna 871, Piura – **L.P.**: Dir.: J. C. Montjoy – **ANN.**: "R. Piura, la decana del Departamento" – **V.** by letter.

66) Montero 114, Cuzco – **L.P.**: Dir.: C. Lizárraga – **ANN.**: "La Voz de la *Capital Arqueológica de América*".

67) Cas. 23, Arequipa. Tc.: 2340 – **L.P.**: Dir. Gen.: J. Cornejo P. Dir. Tec.: H. Delgado C – **D.PRGR.**: N. 00.20 – **ANN.**: "OAX61, R

Universidad, Emisora Oficial del Instituto de' Extension Cultural de la Universidad Nac. de San Agustin de Arequipa" – V. by letter.
68) Larco 760, Miraflores, Lima – **L.P.:** Dir. Gen.: C. Palma S. Dir. Tec.: R. Palma S.
69) Ca. 9, Chiclayo – **L.P.:** Dir.: A. J. C. Montjoy D. – **ANN.:** "La Voz del Norte para todo el Perú" and "La Emisora que está mas tiempo en su dial" – V. by letter.
70) Cas. 188, Tacna – **L.P.:** Dir.: J. S. Cáceres V. – **ANN.:** "Transmite R. Tacna y La Voz del Sur simultáneamente" – V. by letter.
71) Arica 30, Iquitos – **L.P.:** Dir.: R. Cruzado – **ANN.:** "Desde el Corazón de la Amazonia transmite Radio Loreto la Voz del Oriente Peruano" or "Transmite Radio Loreto desde Iquitos".
72) Unión 1038, Lima – **L.P.:** Dir.: G. D. Brandt, J. G. Bresani, M. G. de Rivero. Dir. Tec.: A. Gonzales A. – **ANN.:** "En su receptor y en todas partes R. Central, la Emisora más Popular".
73) Pucallpa – **L.P.:** Dir.: J. Reátegui B.
74) Nicolás de Piérola 1014, Lima – **L.P.:** Dir. Gen.: J. Cavero. Dir.: J. C. Andrade – **ANN.:** "Esta es OAX4N, R. Selecta de Lima, una emisora al servicio de la cultura musical del pais" – 75) San Martin 251, Ica.
76) 28 de Julio 203, Ayacucho – **ANN.:** "Transmite OAX5H en 1340 kc, R. Ayacucho desde la ciudad de Ayacucho, Perú, Emisora afiliada a la organización de R. Victoria de Lima" – 77) Talara.
78) Aptdo 277, Iquitos – **L.P.:** Dir.: J. Reátegui B. Dir. Tec.: M. Panduro – **ANN.:** "Una voz loretana para el Perú y el mundo" or "La emisora de los mejores programas" – V. by QSL-card.
79) Paseo Colón 299, Lima – **ANN.:** "En 985 kilociclos transmite Radio Expreso desde Lima, Perú".
80) Callao 120, Huancayo – **L.P.:** Mgr.: R. Rasa Z. – V. by QSL-card.
81) 28 de Julio 1389, Lima – **ANN.:** "En 1440 kc. Continente, el punto de la sintónia en Lima, Perú".
82) Jirón Bolognesi, Tarapoto – **L.P.:** Mgr.: J. Pablo Mori. Dir.: C. Augusto Salinas – **ANN.:** "La Emisora más potente del Oriente Peruano" or "Una voz Sanmartiniana para el Perú y toda América" – V. by letter.
83) San Bernardo 732, Cuzco – 84) Iquitos – **L.P.:** Dir.: B. Solsol E.

Medium Waves:

88) **R. Ritmo,** José Diaz 190, Lima.
85) **R. Imperial,** Ayacucho 598, Cañete – **L.P.:** Dir.: R. Pachas.
86) **R. Chepen,** Chepen, La Libertad – **L.P.:** J. Tejada T.
87) **Gran Unidad Escolar Inca Garcilaso,** Cuzco.
89) **R. Sudamericana,** Independencia 565, Trujillo – **ANN.:** "La Voz del Medio Norte" – V by letter.
90) **R. Libertad,** Unión 1038, Lima – **ANN.:** "La Voz de la Juventud"
91) **R. Salcantay,** Triunfo 370, Cuzco – **L.P.:** Dir.: R. Campana.
92) **R. Mariana,** Iquitos – 93) **R. Atalaya,** Camaná 975, Lima.
94) **R. Latina,** San Martin 561, Tacna – **L.P.:** Dir.: C. Urday Banchero – 95) **R. Talara,** Talara
96) **R. Chincha,** Los Angeles 222, Chincha.
97) **R. Interamericana,** Chimbote, Ancash – **L.P.:** Dir.: N. Arias L. – **ANN.:** "La Voz del Pacifico desde Chimbote, Ancash".
98) **R. Sargento Lores,** Inspección General del Ejército, Iquitos.
99) **R. Abancay,** Abancay – 100) **R. Huancavelica,** Chapchapoyas 104, Huancavelica – 101) **R Mollendo,** Mollendo.
102) **La Voz del Puerto,** Pisco – **L.P.:** Dir.: B. Villa.
103) **R. Santa Rosa,** Camaná 170, Lima – **ANN.:** "Para Ud. transmite R. Santa Rosa en su frequencia de 1490 kc onda larga".
104) **R. Nazca,** Pencal 100, Nazca – **L.P.:** Dir.: Eugenio Cajo. Echegaray – 105) **R. Fessa,** Av. M. Benavides 777, Cañete – **L.P.:** Dir. Gen.: B. S. Sanchez. Dir. Tec.: C. A. Sanchez – **D.PRGR.:** 11.30–05.30 – **N. in Spanish:** 12.00, 18.00, 00.00 – **English:** D 16.00 – **Japanese:** D 19.00 – **INT.-SIG.:** "Zarumilla" – **F.PL.:** 5 kW; s.w.-tr. July 63.
106) **R. Tarma,** Huaraz 198, Tarma – 107) **R. Pacasmayo,** Junin 57, Pacasmayo – **L.P.:** Dir.: L. Gamero é Hijos – **ANN.:** "R. Pacasmayo, la voz de la provincia".
108) **R. Reloj,** Ocoña 484, Lima – 109) **R. Imperial,** Ruinas 426, Cuzco.
110) **R. Surperuana,** Arequipa – 111) Cuzco – 112) Apt. 46, Sicuani.
113) **R. Cien,** Camaná 631, Lima.

SURINAM

L.T.: GMT÷3 ½ h – **Pr.L.:** Dutch, Surinam language, Hindustani, Javanese, Chinese.

ALGEMEENE VEREENIGING RADIO OMROEP (Comm.)
FI.: By adv. – **ADDR.:** A.V.R.O.S., P.O. Box 720, Paramaribo. **Te.:** 2566 – **L.P.:** Chairman of the Board of Directors: E. Bruma. Dir. Tec.: E. Emanuels.
STATIONS: 1035 kc 289.9 m 4 kW – 4852 kc 62.00 m 0.4 kW – 15405 kc 19.47 m 0.35 kW.
HOME SCE. on 1035/4852 kc: 09.30–00.30.
N. in Dutch: Every h on the h. **N. in Surinam language** (Talkie Talkie): 03.30. **N. in Hindi:** 19.50.
FOREIGN SCE. on 1035/4852/15405 kc:
Mo 01.30–02.00 "Surinam calls the Caribbean" **in English and Spanish** – Tues 02.30–03.30 Special prgr. for the Netherlands Antilles.
ANN.: Sp: "Esta es Radio Surinam, la AVROS, en Paramaribo, capital de Surinam, uno de sus vecinos en la America del Sur". Dutch: "Hier is R. Suriname de Avros op golflengten van..." – V. by letter. Rp.

RADIO APINTIE (Comm.)
ADDR.: P.O. Box 1838, Paramaribo. **Te.:** 5224. **Cable:** Fructomel.
L.P.: Dir. Gen.: E. Vervuurt.
STATION: 840 kc 355 m 1 kW
HOME SCE. in Dutch, Talkie-Talkie, English, Hindustani, Javanese, Chinese and French: 09.30–02.30 – **N. Dutch:** 13.30, 17.15, 22.30 – **N. Talkie-Talkie:** 10.00, 01.15.
ANN.: "Radio Apintie, Paramaribo" – **INT.-SIG.:** The beat of the Apintie drum – V. by letter.

URUGUAY

L.T.: GMT÷3 h – **Pr. L.:** Spanish.

DIRECCION DE RADIOCOMUNICACIONES, Montevideo.
L.P.: Dir.: R. Buoncristiano.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS
ADDR.: Uruguay 1218, Montevideo. **Cable:** Andebu. **Te.:** 84456 – **L.P.:** Pres.: Dr. J. Jimenez de Arichaga. Secr.: F. Raul Correa.
STATIONS: All st. pr. comm. exc. 7), 33), 34). *) inactive.
Short Waves: Call: CX---. Location: Montevideo exc. where indicated.

	Call	kc	m	kW	Name & h of tr.
1)	A2	6000	50.00	5	R. Sur: 10.00–03.00
2)	A30	6035	49.71	1	R. Nacional: 15.00–03.00
3)	A61	6045	49.63	10	El Espectador: 12.00–03.00
4)	A53	6055	49.55	5	La Voz de Melo, Melo: 10.00–03.00
5)	A3	6075	49.38	2.5	R. Ariel: 10.00–03.00
6)	A73	6115	49.06	2	R. Clarin: 24 h
7)	A4	6125	48.98	10	S.O.D.R.E.: 13.00–03.10
8)	A20	6140	48.86	10	R. Monte Carlo: 10.00–03.00
9)	A13	6155	48.74	10	R. Carve: 14.00–18.00, 22.00–03.00
10)	A21	6170	48.62	1	R. Fenix: 14.00–16.00, 21.00–01.00
11)	A60	9515	31.53	10	R. Sarandi: 12.00–18.00
8)	A72	9595	31.27	10	R. Monte Carlo: 14.00–19.00
7)	A6	9620	31.19	20	S.O.D.R.E.: 12.00–03.10
12)	A7	11735	25.56	5	R. Oriental: 11.00–15.00, 20.00–02.00
3)	A19	11835	25.35	5	El Espectador: 10.55–03.00
11)	A68	11885	25.24	10	R. Sarandi: 16.00–17.00
7)	A10	11900	25.21	20	S.O.D.R.E.: 12.00–03.10
4)	A64	*15225	19.70	25	La Voz de Melo
11)	A70	15385	19.49	10	R. Sarandi: 01.00–03.00

Medium Waves: °=Short Wave.

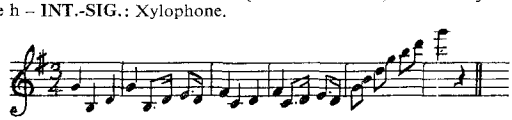
	Call	kc	kW
13)	CW1	550	4.5
6)	CX58	°580	0.5
14)	CX4	610	5
7)	CX6	°650	50
15)	CW27	680	1/0.25
11)	CX8	°690	10/5
5)	CX10	°730	5/2.5
12)	CX12	°770	25
3)	CX14	°810	25
16)	CW23	820	1/0.5
9)	CX16	°850	50
3)	CX18	°890	10/5
8)	CX20	°930	10/5
17)	CX22	970	1.5
9)	CX24	°1010	2.5
7)	CX26	°1050	20
18)	CX28	1090	10/5
19)	CW31	1120	2/0.5
2)	CX30	°1130	10/5
1)	CX32	°1170	10/5
20)	CW33	1200	0.25
21)	CX34	1210	2.5
22)	CW35	1240	2/1
23)	CX36	1250	3/1
3)	CW37	°1260	1/0.25
7)	CX38	°1290	1
24)	CW39	1320	0.5/0.1
10)	CX40	°1330	0.5
4)	CW53	°1340	2.5/1
25)	CW41	1360	0.5
26)	CX42	1370	2.5
27)	CW45	1390	1/0.5
28)	CW46	1400	10
29)	CX44	1410	5
30)	CW43	1420	1/0.5
31)	CW25	1430	1
32)	CX46	1450	5/2.5
33)	CW46B	1460	0.25
34)	CW46C	1460	0.03
35)	CX147	1470	1/0.5
36)	CW43B	1480	2
37)	CX48	1490	5
38)	CW47B	1510	0.1
39)	CX152	1520	2
40)	CX50	1530	0.5
41)	CX155	1550	0.25
42)	CW51	1560	0.5
39)	CV156	1560	0.7
43)	CW52	1570	0.25
44)	CV157	1570	0.1
45)	CX157	1570	0.1
46)	CW54	1580	0.25
47)	CV158	1580	0.1
48)	CX159	1590	0.25
49)	CW56	1600	0.25
50)	CV160	1600	0.1
51)	CX160	1600	0.25

Short Waves:
1) Compañia Uruguaya de Publicidad S.A., Yi 1383, Montevideo.
2) O.R.O.S.A., Plaza Independencia 846, Montevideo – V. QSL-card.
3) Difusoras del Uruguay S.A., Soriano 1287, Montevideo – **D. PRGR.:** CX14 **El Espectador:** 09.58–03.00; CX18 **R. Libertad Sport:** 10.50–03.00; CW37 **Difusora Rochense,** Dr. Julián Graña, Rocha: 11.00–01.00 (Sat & Sun 03.00).
4) Montevideo 721, Melo – **L.P.:** Dir.: R. D. Lucas – **D. PRGR.:** CW53: 11.00–03.00.

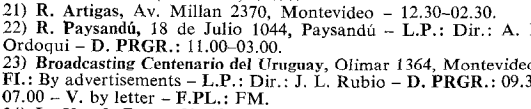
5) Olimar 1472, Montevideo – **L.P.**: Dir.: J. U. Pierri – V. by QSL-card.
6) Colonia 1487, Montevideo – **Te.**: 405841 – **FI.**: By adv. – **AD.**: 3 min. for every 15 min. of music – **L.P.**: Dir.: Ing. F. D. Toureilles. Dir. Tec.: G. Duarte – **D. PRGR.**: **N.**: 11.00, 13.00, 15.00, 17.00, 19.00, 21.00, 23.00, 01.00 – **Wrp.**: D 16.00 - **Italian:** "La Voz de Italia" D 23.15 – **ANN.**: "CX58 R. Clarin. Desde la punta del dial clarinadas de patria y libertad" (every 15 min.s) – V. by letter.
7) Mercedes 823, Montevideo. **Cable**: Sodre – **D. PRGR.**: CX6/CX26: 12.00–03.10. CX38: 21.00–03.00 – **N.**: 13.00, 15.00, 20.00, 24.00, 02.55 – **ANN.**: "Servicio Oficial de Difusion Radio Electrica Montevideo con sus emisoras..." – **INT.-SIG.**: First movements of "Campo" – V. by QSL-card.
8) 18 de Julio 1224, 4° piso, Montevideo. **Cable**: Montecarlo – **L.P.**: Dir. Gen.: H. Romay S. – **D. PRGR.**: CX20 930 kc: 10.00–03.00.
9) Mercedes 973, Montevideo. **Cable**: Sadrep – **L.P.**: Dir. Gen.: R. Fontaina, J. E. De Feo. Dir. Tec.: A. Salvo – V. by QSL-card.
10) Rio Branco 1366, Montevideo – **L.P.**: Dir.: J. J. Rabassa – **D. PRGR.**: CX40: 10.00–05.00(Sat 06.00).
11) Corporacion de Publicidad S.A. Bulevar Gral. Artigas 1515, Montevideo – **L.P.**: Dir.: A. Pérez Parrabere – **D. PRGR.**: CX8: 08.00–05.00 – **D. PRGR.**: N. every h. on the h. V. by letter.
12) Olimar 1364, Montevideo. **Te.**: 81483 – **L.P.**: Dir. Gen.: L. A. Artola – **D. PRGR.**: 10.00–04.15 – **N.**: 11.00, 14.00, 16.00, 20.00, 23.00, 24.00, 01.00, 02.00, 03.00, 04.00 – **ANN.**: "CX12, CXA7 – Radio Oriental" – V. by QSL-card.

Medium Waves:

13) **R. Colonia**, Alberto Mendez 164, Colonia – **L.P.**: Dir.: R. Montellano – **D. PRGR.**: 10.00–05.00(Fri 05.30; Sat 09.00).
14) **R. Rural**, 18 de Julio 1513, Montevideo – **L.P.**: Dir.: A. M. Lázaro – **D. PRGR.**: 10.00–03.00(Sat & Sun 06.00) – **N.**: every h on the h – **INT.-SIG.**: Xylophone.



15) **R. Tabaré**, Uruguay 678, Salto – **L.P.**: Dir.: J. M. Gestoso – **D. PRGR.**: 10.00–03.00.
16) **R. Cultural**, Lavalleja 42–48, Salto – **L.P.**: Dir.: Ramón J. Vinci – **D. PRGR.**: 10.00(Sun 10.30)–03.00.
17) **R. Universal**, Soriano 1217, Montevideo – **L.P.**: Dir.: O. Porrás – **D. PRGR.**: 10.00–03.00(Sat 05.00).
18) **R. Imparcial**, Av. Agraciada 1708, Montevideo – **L.P.**: Dir.: W. Figueira M. – **D. PRGR.**: 24 h – V. by QSL-card.
19) **R. Salto**, Brasil 715, Salto – **L.P.**: Dir.: S. Pera – **D. PRGR.**: 11.00–03.00 – V. by letter.
20) **Difusora Florida**, Gallinal 696, Florida – **L.P.**: Dir.: U. H. Acuña – **D. PRGR.**: 13.00(Sun 12.30)–01.00.
21) **R. Artigas**, Av. Millan 2370, Montevideo – 12.30–02.30.
22) **R. Paysandú**, 18 de Julio 1044, Paysandú – **L.P.**: Dir.: A. M. Ordoqui – **D. PRGR.**: 11.00–03.00.
23) **Broadcasting Centenario del Uruguay**, Olimar 1364, Montevideo – **FI.**: By advertisements – **L.P.**: Dir.: J. L. Rubio – **D. PRGR.**: 09.30–07.00 – V. by letter – **F.PL.**: FM.
24) **La Voz de Paysandú**, 18 de Julio 614, Paysandú – **L.P.**: Dir.: A. M. Penna – **D. PRGR.**: 11.00–03.00.
25) **Broadcasting San José**, Treinta y Tres 890, San José – **L.P.**: Dir.: C. Marin A. & R. Sguilla M. – **D. PRGR.**: 13.00–02.00.
26) **R. del Pueblo**, Mercedes 1805, Montevideo – **L.P.**: Dir.: R. Baz – **D. PRGR.**: 11.15–03.00.
27) **Difusora Treinta y Tres**, Pablo Zufriategui 230, Treinta y Tres – **L.P.**: Dir.: A. Pinho – **D. PRGR.**: 10.50–03.00.
28) **Difusora Zorrilla de San Martin**, 18 de Julio 310, Tacuarembó – **L.P.**: Dir.: Luis S. Dini. Dir. Tec.: J. Alvez – **D. PRGR.**: 09.30–02.30 – **INT.-SIG.**: Electrical Gong – V. by QSL-card.



29) **R. Austral**, 18 de Julio 965, 2° piso, Montevideo – **L.P.**: Dir.: Raúl Beisso C. – **D. PRGR.**: 11.55(Sun 08.25)–02.00.
30) **R. Lavalleja**, José E. Rodó 530, Minas – **L.P.**: Dir.: J. R. Volante – **D. PRGR.**: 12.55–02.00.
31) **R. Durazno**, 18 de Julio 592, Durazno – **L.P.**: Dir.: R. Evangelisti – **D. PRGR.**: 14.00–00.30.
32) **R. América**, Plaza Independencia 846, Montevideo – **L.P.**: Dir.: M. Svirsky – **D. PRGR.**: 13.00(Sun 12.00)–17.00, 19.00–01.00.
33) **Liceo de Dolores**, Liceo de Dolores, Soriano.
34) **Liceo de San Carlos**, San Carlos, Maldonado – **D. PRGR.**: 21.00–24.00 (Sun 10.00–13.00).
35) **R. Montevideo**, Rio Branco 1366, Montevideo – 11.00–02.00.
36) **R. Internacional**, Sarandi 792, Rivera – **L.P.**: Dir.: W. Figueira M. – **D. PRGR.**: 09.00–03.00 (Sat/Sun: 24 h).
37) **R. Femenina**, 18 de Julio 1333, 2° piso, Montevideo – **L.P.**: Dir.: Sara Vazquez – **D. PRGR.**: 13.00–01.45.
38) **R. Berna**, Nueva Helvetia – **L.P.**: Dir.: M. A. Ravazzani – **D. PRGR.**: 10.00–16.30, 18.00–23.30.
39) **R. Cerro Largo**, Rio Branco 660, Melo – **L.P.**: Dir.: E. Mariño – **D. PRGR.**: 11.00–03.00 – **N.**: every h on the h – CV156 **R. Vichadero**, Vichadero.
40) **R. Independencia**, Paysandú 1186, Montevideo – **L.P.**: Dir.: A. Rupenián – **D. PRGR.**: 11.00–03.00.
41) **R. Carmelo**, 19 de Abril 444, Carmelo – **L.P.**: Dir.: U. Lobecio P. – **D. PRGR.**: 11.00–03.00.
42) **R. Maldonado**, Isla de Gorriti 819, Maldanodo (or 18 de Julio 1561, Montevideo) – **L.P.**: Dir.: H. Lamaison – 12.00–02.00.
43) **R. Litoral**, España 1157, Fray Bentos – **L.P.**: Dir.: G. Arizti – **D. PRGR.**: 12.00–02.00.
44) **R. Bella Union**, Dept. Artigas – **L.P.**: Dir.: W. Othaix – **D. PRGR.**: 11.00–03.00.
45) **R. Canelones**, Canelones – **L.P.**: Dir.: W. Espiga – **D. PRGR.**: 11.30–02.00.
46) **Emisora del Este**, Domingo Pérez 491, Minas – **L.P.**: Dir.: C. R. Falco – **D. PRGR.**: 10.45–02.00.
47) **R. Rivera**, Monseñor Vera 1132, River – **L.P.**: Dir.: D'Artagnán Pedezert – **D. PRGR.**: 10.30–17.00, 20.00–00.30.
48) **Emisora Real de San Carlos**, Av. Gral. Flores 468, Colonia – **L.P.**: Dir.: Dr. E. Geimonart – **D. PRGR.**: 10.00–03.00.
49) **Difusora Soriano**, Florida 568, Mercedes – **L.P.**: Dir.: M. M. Racioppi – **D. PRGR.**: 10.00–03.00.
50) **R. Atlantica**, Parada 3, Punta del Este – **D. PRGR.**: 11.30–03.00.
51) **R. Rio Branco**, Rio Branco – **L.P.**: Dir.: R. D. Lucas

VENEZUELA

L.T.: *GMT÷4 h* – **Pr.L.**: Spanish.

MINISTERIO DE COMUNICACIONES

ADDR.: Direccion de Telecomunicaciones, Division de Radiodifusion, Caracas.

CAMARA VENEZOLANA DE LA INDUSTRIA DE LA RADIO Y TELEVISION:

ADDR.: Apt. de Correos 3155, Caracas. **Cable**: Camradio. **Te.**: 425805 – **L.P.**: Pres.: F. Cardona Moreno.

STATIONS: All st.'s comm. exc. 46) (Go.) & 20) (Rel.)

Short Waves: Call: YV—. *=inactive.

	Call	kc	m	kW	Name and h of tr.	
1)	QG	2360	127.1	1	R. Carúpano	09.30–03.30
2)	QP	2370	126.1		R. Puerto La Cruz	
3)	LG	*2440	122.9	1	R. Girardot, Maracay	
5)	NI	2470	121.5	0.3	R. Carora	11.30–02.30
4)	OX	2450	122.5		R. Los Llanos, Calabozo	
6)	PD	2480	120.9		La Voz de Avila, Caracas	
7)	OO	2490	120.5		R. Valles del Tuy, Ocumare del Tuy	
8)	KT	3245	92.45	1	R. Libertador, Caracas	10.30–04.30
9)	QL	3255	92.17	0.5	La Voz del Tigre	11.30 03.30
10)	OC	3265	91.87	1	Ecos del Torbes, San Cristobal	10.30–03.30
11)	MG	3275	91.60	1	R. Mara, Maracaibo	10.30–03.30
12)	LE	3285	91.32	1	R. Puerto Cabello	10.30–03.30
13)	OG	3295	91.10	0.7	R. Trujillo	11.00–02.30
14)	KX	3305	90.77	3	La Voz de la Patria, Caracas	10.30–03.30
15)	LI	3315	90.50	1	R. Maracay	11.30–03.30
16)	RA	3325	90.22	0.6	R. Monages, Maturin	11.25–03.30
17)	QD	3335	89.95	2	Ecos del Orinoco, Ci. Bolivar	10.20–03.30
18)	OS	3345	89.68	7.5	R. Continente, Caracas	
19)	LC	3355	89.41	1	R. Valencia	10.30–03.30
20)	MI	3375	88.89	0.6	La Voz de la Fé, Maracaibo	11.30–02.30
21)	QI	3385	88.63	1	R. Barcelona	09.30–03.30
22)	OJ	3395	88.37	1	R. Universidad, Merida	10.30–03.30
23)	KV	4760	63.03	0.5	Emisora Vargas, La Guaira	10.30–03.30
24)	NW	4770	62.89	0.3	Ondas del Caribe, Punto Fijo	11.30–03.30
25)	LA	4780	62.76	1	La Voz de Carabobo, Valencia	10.30–04.00
26)	QN	4790	62.63	5	Ondas Porteñas, Pto. La Cruz	10.25–04.30
27)	ME	4800	62.50	10	Ondas del Lago, Maracaibo	10.30–03.30
28)	MG	4810	62.37	1	R. Popular, Maracaibo	10.30–03.30
29)	RC	4820	62.24		La Voz de Apure, S. Fernando Apure	11.30–02.30
30)	OA	4830	62.11	5	La Voz del Tachira, San Cristobal	10.30–03.30
31)	OI	4840	61.98	1	R. Valera	11.30–03.30
32)	MS	4850	61.86	1	R. Universo, Barquisimeto	10.30–03.30
33)	PA	4860	61.75	1	R. Yaracuy, S. Felipe	10.30–03.30

	Call	kc	m	kW	Name and c of tr.	
34)	KP	4870	61.60	2	R. Tropical, Caracas	
35)	KF	4880	61.48	7.5	Ondas Populares, Caracas	10.30–04.30
36)	KB	4890	61.35	5	R.Diff. Venezuela, Caracas	10.30–04.30
37)	QE	4900	61.22	1	R. Cumaná	10.30–03.30
38)	MK	4910	61.10	1	R. Cabimas	10.30–03.30
39)	KR	4920	60.99	7.5	R. Caracas	10.30–05.30
40)	OT	4930	60.85	0.5	R. Junin, S. Cristobal	10.30–04.30
41)	MO	4940	60.73	2	R.dif. Occidental, Barquisimeto	10.30–03.30
42)	MM	4950	60.60	1	R. Coro	10.30–03.30
43)	QA	4960	60.48	1	R. Sucre, Cumaná	10.30–03.30
44)	LK	4970	60.36	10	R. Rumbos, Caracas	10.30–04.30
45)	MQ	4990	60.12	15	R. Barquisimeto	12.00–03.30
46)	KO	*5020	59.76	10	R. Nacional, Caracas	
18)	KM	5030	59.64	7.5	R. Continente, Caracas	10.00–04.00
47)	MA	5040	59.55	1	Ecos del Zulia, Maracaibo	10.30–04.30
48)	KD	5050	59.41	5	R. Cultura, Caracas	10.30–03.30
49)	NL	6000	50.00		R. Miranda, Los Teques	
34)	KQ	6110	49.06	2	R. Tropical, Caracas	
6)	PE	6130	48.94		La Voz de Avila, Caracas	
46)	KO	6170	48.62	10	R. Nacional, Caracas	10.30–04.30
45)	XJ	9510	31.55	15	R. Barquisimeto	10.30–03.30
°)	MZ	9530	31.48	1	Various tr., Maracaibo	12.00–03.30
°°)	OM	9570	31.35	1/10	Various tr., S. Cristóbal	12.00–03.30
46)	SC	*9640	31.12	10	R. Nacional, Caracas	
44)	LK	11725	25.59	1	R. Rumbos, Caracas	10.30–04.30

°) common freq. for 27), 47), 58 – °°) common freq. for 10), 30).

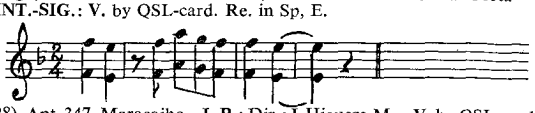
Medium Waves: Call: YV–. °=Short Waves. ¹=also FM.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
44)	LX	°560¹	50/100	35)	KG	°950	5	42)	MN	°1210	1
46)	KA	550	10	16)	RB	°960	10	31)	OH	°1230	0.25
18)	KL	°590¹	20	57)	ND	970	10	71)	LQ	1240	1
50)	NO	610	10	9)	MQ	°980	10	72)	NU	1250	
46)	KA	°630	5	58)	LR	990	10	38)	ML	°1250	1
26)	QO	°650	10	30)	OB	°1000¹	10	73)	OU	1270	
3)	LH	°660	50	59)	NM	1000	1	41)	MP	°1280	2
44)	LL	670¹	10	60)	PC	1010		12)	LF	°1290¹	1
45)	MR	°680	15	43)	QT	°1020	10	74)	KH	1300	1
25)	LB	°690	1	61)	MZ	1030	0.3	75)	QY	1310	0.6
28)	MH	°700	10	17)	QC	°1030¹	2	76)	OE	1320	1
14)	KY	°710	10	62)	ON	1040	10	77)	NS	1300	
51)	QR	720	10	34)	RT	°1050	10	4)	OY	°1330	
52)	NP	730	120	63)	LN	1060	0.3	78)	QU	1340	0.1
39)	KS	°750	10	23)	KW	°1070	1	79)	NH	1350	0.5
2)	Q	°770	0.25	64)	NG	1070	1	80)	LO	1370	1
10)	OD	°780	10	21)	QJ	°1080	1	81)	QZ	1390	0.2
36)	KC	°790	5	32)	NT	°1090	10	20)	MJ	°1400	0.6
47)	MB	°800	10	48)	KE	°1100	10	82)	NV*	1410	
53)	LP	810	10	65)	NN	1110	10	83)	NT*	1420	
49)	LT	°830	10	27)	MF	°1120	10	13)	OF	°1420	0.5
54)	MY	°840	1	66)	NA	1130	0.3	84)	NJ	1430	0.5
19)	LD	°850	10	7)	TD	°1130	10	85)	FR	1440	0.5
37)	QF	°860	1	5)	MU	°1140¹	1.5	22)	OJ	°1450	1
40)	OL	°870	10	11)	MD	°1150	1	24)	MV	°1460	1
8)	KU	°880	10	67)	QV	1170	2	86)	OP*	1480	
55)	LW	890	10	68)	OV	1180		87)	*	1490	
56)	QX	920	1	69)	OR	1180		33)	PB	°1490	
15)	LJ	°930	1	70)	RE	1190	0.25				
1)	QB	°940	1	6)	OZ	°1200					

* under construction. 44) YVLL 670 kc: SSB (Single Side Band) every Sat 21.30-22.30. Stations 9), 26), 32), 58), 65), 76) belongs to 18). Stations 1), 21), 43) belong to 44).

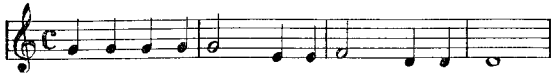
Short Waves:

1) Carúpano – **F.PL.:** M.W. 10 kW.
2) Puerto La Cruz.
3) C.A. R. Girardot, Maracay.
4) Calabozo – **L.P.:** Dir.: M. O. Sosa C.
5) Ca. Bolivar, Carora. **Te.:** 1121 – **L.P.:** Dir.: C. Jose Gonzalez – **D. PRGR.:** **N.:** 11.30, 15.00, 23.30, 01.00 – **ANN.:** "R. Carora YVMU 1140 kc Onda Larga, YVNI 2470 kc y YVMU/FM 31.5 Mc, transmitiendo desde Carora, Capital del Distrito Torres, Estado Lara Republica de Venezuela, Patria del Libertador" – **INT.-SIG.:** Xylophone – **V.** by letter.
6) Caracas. 7) Ocumare del Tuy.
8) Palma Miracielos, Edif. "Henry Clay", 2do piso, Caracas. **Te.:** 41-49-73 – **L.P.:** Dir. Gen.: L. Raymondi Bello. Dir. Tec.: H. Degwitz. Dir. English Prgr.: C. Nash – **D. PRGR.:** **N. in Spanish:** every half h. Special newscasts W 16.00, 21.30 – **English:** 11.30–13.00, 23.00–23.30 – **Portuguese:** 17.30–18.00 – **V.** by letter.
9) El Tigre (Anzóategui).
10) Ca. 9-55. Apt. 152, San Cristobal – **L.P.:** Dir.: J. J. Mora F. Dir. Tec.: J. A. Lugo Blanco – **D. PRGR.:** W 10.30–03.30. Sun 11.30–01.30. **N.:** 11.00, 16.30, 18.20, 19.30, 22.30, 00.30, 03.15 – **ANN.:** "Desde San Cristobal, Venezuela, Patria del Libertador transmite Ecos del Torbes, su Emisora, Predilecta. Estaciones YVOC 3265 kc onda corta, 780 kc onda larga y YVOM 9570 kc banda international de 31 metros" – **V.** by letter.
11) Apt. 100, Maracaibo – **L.P.:** Dir.: L. A. Goveá.
12) Apt. 4, Puerto Cabello. **Te.:** 3388 – **L.P.:** Dir. Gen.: S. Guevara V. Dir. Tec.: P. José C. – **ANN.:** "Esta es R. Puerto Cabello, siempre al servicio de su región, la primera en sinfonia en el centro y todo el Litoral" – **V.** by QSL-card – **F.PL.:** m.w. 10 kW – **PUB.:** TV-Guia.
13) Ca. Independencia 200, Trujillo – **L.P.:** Dir.: P. J. Torres.
14) C.A. La Voz de la Patria, Caracas – **V.** by letter.
15) Maracay – **L.P.:** Owner: Armezzano & Vásquez.
16) Apt. 14, Maturin – **L.P.:** Dir. Gen. & Dir. Tec.: L. J. Arreaza A. – **D. PRGR.:** **N.:** 12.15, 16.30, 22.30, 02.30 – **V.** by letter. Re. in Sp, E.
17) Apt. 47, Ci. Bolivar. **Te.:** 20413 – **L.P.:** Dir. Gen.: E. Bellorin A. – **D. PRGR.:** **N.:** 11.30, 16.30, 23.00, 03.00 (BBC). **Italian:** D 17.00 17.30. **Music of USA** (ann. in English): D 21.00–21.30 – **ANN.:** "Con el avance económico y cultural de la Guayana transmite Ecos del Orinoco un punto de amistad en su dial, Emisoras YVOC 1030 kc onda larga, YVOD 3335 kc onda corta en banda tropical de 90 metros y YVOC-FM... en Ci. Bolivar, Venezuela, Patria de El Libertador" – **V.** by letter with card. Prgr.schedule free on request.
18) Circuito R. Continente, Apt. 866, Caracas. **Cable:** Continente. **Te.:** 543411 – **L.P.:** Pres.: J. F. Rodriguez. Dir. Tec.: H. W. W. Walden – **D. PRGR.:** **N.:** 10.30, 16.30, 02.30 – **ANN.:** "Trasmite R. Continente, la emisora más potente del país YVKL 590 kc, YVKM 5030 kc desde Caracas, Venezuela, America del Sur" – **V.** by letter. Re. in Sp, E. Prgr.schedule free on request.
19) Valencia – **L.P.:** Dir.: M. Aché.
20) Maracaibo – **L.P.:** Dir.: P. Bermudez.
21) Apt. 27, Barcelona – **F.PL.:** YVQJ 10 kW.
22) Apt. 74, Merida.
23) La Guaria – **L.P.:** Dir.: P. Sosa Guzmán.
24) Punto Fijo – **L.P.:** Dir.: R. Leyba.
25) Valencia – **V.** by letter.
26) Ca. Libertad 46, Puerto La Cruz. **Cable:** Onport – **D. PRGR.:** **N.:** 11.00, 16.45, 22.30, 04.00. **English:** D 03.15 – **ANN.:** "Ondas Porteñas – la emisora que impera en Oriente" – **V.** by lett. Prgr.schedule free on request.
27) Apt. 261, Maracaibo. **Cable:** Lagonda. **Te.:** 76261 – **L.P.:** Pres.: N. Vale Quintero. Dir. Tec.: I. Salcedo – **D. PRGR.:** **N.:** W 12.00, 17.00, 02.30. Sun 17.30, 24.00 – **ANN.:** "Desde Maracaibo, Venezuela, Patria del Libertador, País Democrática, Transmite Ondas del Lago, Emisoras YVME 1120 kc, YVMF 4800 kc Onda Corta" – **INT.-SIG.:** **V.** by QSL-card. Re. in Sp, E.



28) Apt. 347, Maracaibo – **L.P.:** Dir.: J. Higuera M. – **V.** by QSL-card.
29) Apt. 14, San Fernando Apure.
30) Apt. 37, San Cristobal. **Te.:** 11002 – **L.P.:** Dir. Gen. & Dir. Tec.: J. M. Diaz González – **D. PRGR.:** **N.:** 10.30, 11.30, 17.00, 22.30, 00.50, 02.00, 03.15 – **International Sce.:** **Dutch:** Wed, Fri 02.30–03.00 – **ANN.:** "La Voz del Tachira, YVOB 1000 kc Onda Larga, YVOA 4830 kc Onda Corta y YVOM 9570 kc Banda Internacional de 31 mtr. FM 88.3 y 98.3 Mc por segundo, desde San Cristobal, en Venezuela, Patria del Libertador y País Democratico de America" – **V.** by QSL-card or letter. Re. in Sp, E.
31) Ca. Bolivar 54, Valera – **L.P.:** Dir.: J. Febres J.
32) Apt. 76, Barquisimeto – **V.** by letter. — 33) San Felipe.
34) San Jacinto 9, Caracas – **ANN.:** "En cualquier sitio R. Tropical y su gran Circuito Nacional R.C." – **V.** by QSL-card.
35) Edif. Radio Centro, Apt. de Correos 2057, Caracas. **Te.:** 418971 – **V.** by QSL-card.
36) Cipreses a Miracielos 1, Caracas – **D. PRGR.:** **German:** Mo 00.30–01.00 – **ANN.:** "Radiodifusora Venezuela – máxima en potencia y calidad – transmitiendo desde Caracas, Venezuela, cuna del Libertador".
37) Cumana – **L.P.:** Dir. Gen.: J. Antonio I.
38) Ca. Democracia, Cabimas – **V.** by letter.
39) Coraven C.A., Barcenas a Rio, Caracas. **Cable:** Coraven. **Te.:** 418971 – **L.P.:** Dir. Gen.: A. Espina – **D. PRGR.:** **N.:** Every half-h from 11.30 to 03.00 – **ANN.:** "R. Caracas" – **V.** by QSL-card or letter. Re. in E, Sp.
40) Apt. 220, San Cristobal – **L.P.:** Dir.: P. Vivas Arellano.
45) Apt. 76, Barquisimeto – **L.P.:** Dir. Prgr.: P. R. Calderon. Dir Adm.: Srta. T. Caballero – **V.** by letter.
42) Comercio y Monzón 77, Coro – **L.P.:** Dir. Gen.: R. Leyba. Dir. Tec.: V. J. Roca – **D. PRGR.:** **N.:** 12.30, 16.30, 23.30 – **Folklore Music:** 10.30, 17.00 – **INT.-SIG.:** Opens and closes with the march "Los Tres Colores" and the Nat. Anthem – **V.** by letter.
43) Apt. 26, Cumana – **L.P.:** as 1) – **V.** by letter.
44) Apt. 2618, Caracas. **Te.:** 415963 – **L P.:** Pres.: F. Serrano M. Dir. Tec.: A. Gulbis – **D. PRGR.:** **N.:** 10.30, 16.30, 22.00, 04.00 – **ANN.:** "Transmite Radio Rumbos, la emisora de Venezuela" – **INT.-SIG.:** Gong – **V.** by QSL-card. Re. in Sp, G, E or F. St's transmitting in chain with R. Rumbos 1), 21), 43), 65) – **V.** by QSL-card.
45) Apt. 576 Barquisimeto – **V.** by QSL-card.

46) P.O. Box 3979, Caracas. Te.: 720661 – L.P.: Dir. Gen.: Dr. A. Pizani P. Dir. Tec.: L. Linares C. Dir. Eng. Prgrs.: G. Artiles – D. PRGR.: N.: every h. (5 min's) English (on s.w. only) D: 20.30–22.00, 01.30–03.00 (repeat) – LL (English) Sat. 04.30, 22,00. – INT.-SIG.: First theme from the National Anthem.



ANN.: Sp: "R. Nacional de Venezuela". E: "This is the Venezuelan National Broadcasting Station" – V. by letter. QSL-card under preparation. Re. in Sp, E. Prgr.schedule in English and Spanish.
47) Apt. 37, Maracaibo. Cable: Ecozulia – L.P.: Gen. Mgr.: A. Baralt L. – V. by QSL-card.
48) Apt. 1931, Caracas. Te.: 41-09-76 – L.P.: Dir. Gen.: I. Neri – D. PRGR.: N.: 10.45, 16.30, 22.30 – Italian: 01.30–03.30 – ANN.: "En al año... de nuestra independencia, desde Caracas, Venezuela, Cuna de El Libertador, transmite Radio Cultura..." – V. by QSL-card – F.PL.: 20 kW tr.
49) Los Teques – L.P.: Dir.: A. Landaeta.

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50) **R. Libertad,** Cabimas – 51) **R. Cumana,** Cumana.
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59) **R. Morón,** Morón – 60) **R. Aragua, Cagua.**
61) **R. Calendario,** P.O. Box 789, Maracaibo.
62) **R. Los Andes,** Mérida – 63) **R. Guarico,** San Juan de los Morros.
64) **R. Llagunillas,** Llagunillas.
65) **R. Punto Fijo,** Ca. Ecuador, Altos, Edif. Rofer, Punto Fijo – D. PRGR.: 10.30–04.30.
66) **Ondas de los Médanos,** Coro – 67) **R. Acarigua,** Acarigua.
68) **R. Perija,** Machiques – 69) **R. Maturin,** Maturin.
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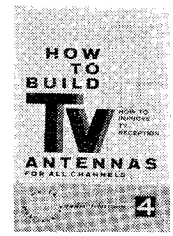
TECHNICAL HANDBOOKS

on Radio and TV

TV and FM Antennas



Describes how to build TV and FM antennas for all channels. By F. Rydström, O. Engelstoft and A. Fialla.
Explains **all problems** connected with TV and FM antennas and TV reception and with "how-to-build" articles dealing with **TV and FM antennas for all channels.**
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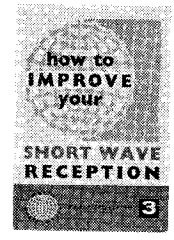
How to improve your Short Wave Reception



A practical handbook for short wave enthusiasts who wish to know all about short wave reception, the technical aids and means of improving it, and who wish themselves to build short wave receivers or means to improve short wave reception such as an effective short wave antenna, preselector etc.

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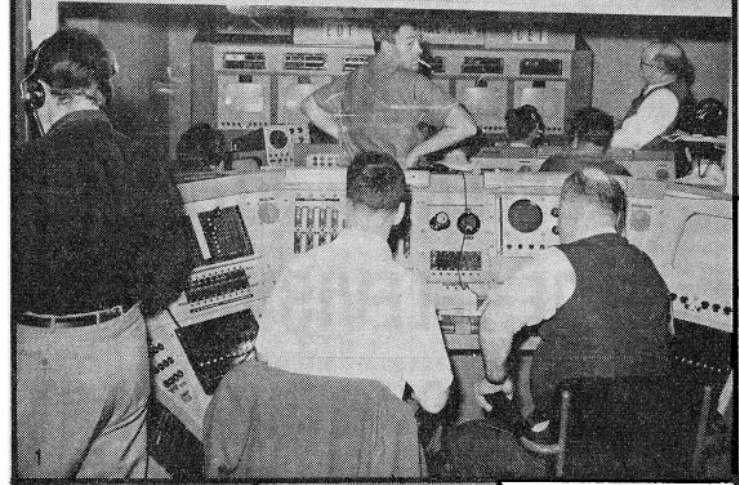
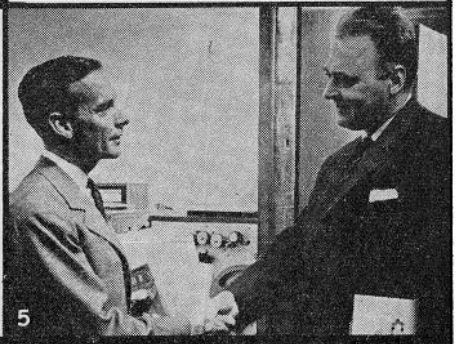


has elapsed since the beginning of the programme to the nearest second.

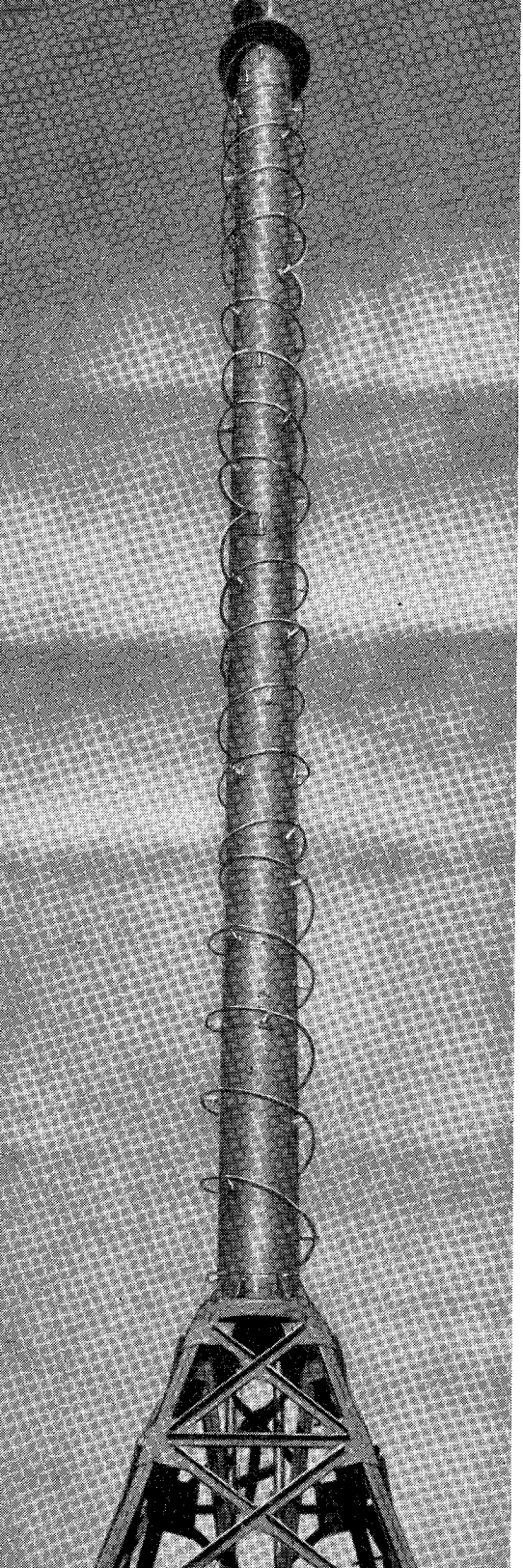
2. **All India Radio:** Main announcers in the Overseas Service.
3. **BBC Television Service:** Announcer and interviewer Judith Chalmers.
4. **The Voice of the Andes HCJB:** At 10.00 am the Voice of Sonja Persson comes into many homes in Sweden as she leads them in a Sunday morning worship hour.
5. **Radio Denmark:** Saturday Night Club – world wide exchange of DX–experience (Platt left, Hansen right).

1. Transmission Satellite The E.B.U. Technical Control Room in Brussel (in the foreground). In the background the picture monitors showing the pictures received from the various origins. The right-hand clock shows Brussel's time, the left-hand clock shows New York time. The digital-display clock in the centre indicates the time that



Radio–Canada International Sce Announcers: From left: Walter Roome, German language – Charles Miller, announcer – Henry Whiston producer of progr. "Jazz at its Best" – Earle Fisher, English language – Maryse Reicher, listeners' mail in the progr. " Coin des Auditeurs ", French language progr.

Asahi Broadcasting Corpo, Japan: " Kindergarten " pupils and teachers broadcasting in the studio.



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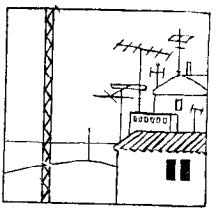
WORLD TELEVISION



The principal CCIR* television systems:
Definition refers to the standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines, 625 lines (OIRT**) and 819 lines respectively.

	— CCIR/Systems* —			
Number of lines per picture	405	525	625	819
Video bandwidth (Mc/s)	3	4	5	10.4
Channelwidth (Mc)	5	6	7	14
Sound carrier relative to vision carrier	÷3.5	+4.5	+5.5	÷11.15
(Sound carrier relative to edge of channel)	+0.25	÷0.25	÷0.25	+0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s)	10.125	15.750	15.625	20.475
Field frequency (c/s)	50	60	50	50
Picture frequency (c/s)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

* The International Radio Consultative Committee.
**The characteristics are the same as 625 lines exc. for a difference in bandwidth: video bandwidth 6 Mc, channelwidth 8 Mc, sound carrier relative to vision carrier +6.5 Mc.

The following pages give you the data for the different TV stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: American, B: British etc.) and the figure is the channel number.
The power for vision and sound are indicated by a fraction, the numerator indicating the number of kW (ERP) for vision and the denominator for sound, for example 6/1.5 means vision 6 kW ERP and sound 1.5 kW ERP.
Differences in Belgian TV from resp. CCIR 625 and French 819:

	CCIR 625	Belgian 625	French 819	Belgian 819
Video bandwidth (Mc)			10.4	5
Channelwidth (Mc)			14	7
Sound relative to vision			÷11.15	+5.5
Sound relative to edge of ch.			+0.10	÷0.25
Vision modulation	Negative	Positive		
Level of black as percentage of peak carrier	75	25		
Sound modulation	FM	AM		

United States of America. Number of lines: 525.

ch	Mc	ch	Mc	ch	Mc
A-2	55.25/ 59.75	A-30	567.25/571.75	A-57	729.25/733.75
A-3	61.25/ 65.75	A-31	573.25/577.75	A-58	735.25/739.75
A-4	67.25/ 71.75	A-32	579.25/583.75	A-59	741.25/745.75
A-5	77.25/ 81.75	A-33	585.25/589.75	A-60	747.25/751.75
A-6	83.25/ 87.75	A-34	591.25/595.75	A-61	753.25/757.75
A-7	175.25/179.75	A-35	597.25/601.75	A-62	759.25/763.75
A-8	181.25/185.75	A-36	603.25/607.75	A-63	765.25/769.75
A-9	187.25/191.75	A-37	609.25/613.75	A-64	771.25/775.75
A-10	193.25/197.75	A-38	615.25/619.75	A-65	777.25/781.75
A-11	199.25/203.75	A-39	621.25/625.75	A-66	783.25/787.75
A-12	205.25/209.75	A-40	627.25/631.75	A-67	789.25/793.75
A-13	211.25/215.75	A-41	633.25/637.75	A-68	795.25/799.75
A-14	471.25/475.75	A-42	639.25/643.75	A-69	801.25/805.75
A-15	477.25/481.75	A-43	645.25/649.75	A-70	807.25/811.75
A-16	483.25/487.75	A-44	651.25/655.75	A-71	813.25/817.75
A-17	489.25/493.75	A-45	657.25/661.75	A-72	819.25/823.75
A-18	495.25/499.75	A-46	663.25/667.75	A-73	825.25/829.75
A-19	501.25/505.75	A-47	669.25/673.75	A-74	831.25/835.75
A-20	507.25/511.75	A-48	675.25/679.75	A-75	837.25/841.75
A-21	513.25/517.75	A-49	681.25/685.75	A-76	843.25/847.75
A-22	519.25/523.75	A-50	687.25/691.75	A-77	849.25/853.75
A-23	525.25/529.75	A-51	693.25/697.75	A-78	855.25/859.75
A-24	531.25/535.75	A-52	699.25/703.75	A-79	861.25/865.75
A-25	537.25/541.75	A-53	705.25/709.75	A-80	867.25/871.75
A-26	543.25/547.75	A-54	711.25/715.75	A-81	873.25/877.75
A-27	549.25/553.75	A-55	717.25/721.75	A-82	879.25/883.75
A-28	555.25/559.75	A-56	723.25/727.75	A-83	885.25/889.75
A-29	561.25/565.75				

United Kingdom and Ireland. Number of lines: U.K. 405; Ireland 625, partly 405.

ch	Mc	ch	Mc	Ireland (partly) 625 lines: ch	Mc
B-1	45.00/ 41.50	B-8	189.75/186.25		
B-2	51.75/ 48.25	B-9	194.75/191.25		
B-3	56.75/ 53.25	B-10	199.75/196.25	C-1	42.50/ 48.50
B-4	61.75/ 58.25	B-11	204.75/201.25	C-2	175.25/181.25
B-5	66.75/ 63.25	B-12	209.75/206.25	C-3	191.25/197.25
B-6	179.75/176.25	B-13	214.75/211.25	C-4	207.25/213.25
B-7	184.75/181.25	B-14	219.75/216.25	C-5	215.25/221.25

Continental Europe (excl. France, Monaco, Italy and OIRT members). Number of lines: 625.

ch	Mc	ch	Mc	ch	Mc
E-2	48.25/ 53.75	E-5	175.25/180.75	E-9	203.25/208.75
E-2A	49.75/ 55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/ 60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/ 67.75	E-8	196.25/201.75	E-12	224.25/229.75

France, Monaco. Number of lines: 819.

F-2	52.40/ 41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/ 54.40	F-8	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8A	186.55/175.40	F-12	212.85/201.70
F-6	173.40/162.25	F-9	190.30/201.45		

Italy. Number of lines: 625.

A	53.75/ 59.25	D	175.25/180.75	G	201.25/206.75
B	62.25/ 67.75	E	183.25/189.75	H	210.25/215.75
C	82.25/ 87.75	F	192.25/197.75		

USSR and OIRT members. Number of lines: 625. Channel width: 8 Mc. Video bandwidth 6 Mc.

OIRT-I	49.75/ 56.25	OIRT-VII	183.25/189.75
OIRT-II	59.25/ 65.75	OIRT-VIII	191.25/197.75
OIRT-III	77.25/ 83.75	OIRT-IX	199.25/205.75
OIRT-IV	85.25/ 91.75	OIRT-X	207.25/213.75
OIRT-V	93.25/ 99.75	OIRT-XI	215.25/221.75
OIRT-VI	175.25/181.75	OIRT-XII	223.25/229.75

Australia. Number of lines: 625.

0	46.52/ 51.75	5	102.25/107.75	9	196.25/201.75
1	57.25/ 62.75	5A	138.25/143.75	10	209.25/214.75
2	64.25/ 69.75	6	175.25/180.75	11	216.25/221.75
3	86.25/ 91.75	7	182.25/187.75		
4	95.25/100.75	8	189.25/194.75		

Japan. Number of lines: 525.

J-1	91.25/ 95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75		

Television on VHF/UHF Europe (Band IV/V).
VHF/UHF television systems adopted by the European Broadcasting Conference Stockholm 1961 are 625-lines systems only. These can be grouped into 5 categories, here called Standards G to L:

Standard	Video Band-width (Mc/s)	Picture/ Sound Separation (Mc/s)	Vestigial Sideband (Mc/s)	Picture modulation	Sound modulation	Frequency of chromi-nance subcarrier (Mc/s)	Power ratio picture/ sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75*)	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

* Administrations proposing this Standard are studying the possibility of extending the vestigial sideband to 1.25 Mc.

ch	Vision Mc	ch	Vision Mc	ch	Vision Mc	ch	Vision Mc
21	471.25	33	567.25	45	663.25	57	759.25
22	479.25	34	575.25	46	671.25	58	767.25
23	487.25	35	583.25	47	679.25	59	775.25
24	495.25	36	591.25	48	687.25	60	783.25
25	503.25	37	599.25	49	695.25	61	791.25
26	511.25	38	607.25	50	703.25	62	799.25
27	519.25	39	615.25	51	711.25	63	807.25
28	527.25	40	623.25	52	719.25	64	815.25
29	535.25	41	631.25	53	727.25	65	823.25
30	543.25	42	639.25	54	735.25	66	831.25
31	551.25	43	647.25	55	743.25	67	839.25
32	559.25	44	655.25	56	751.25	68	847.25

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrier frequency given above. This figure appears in the list giving details about systems G, H, I, K, and L.

ALBANIA

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L.P.: Dir. Gen.: J. Scheidl. Dir. TV: G. Freund. Dir. Tec., Vice-Dir Gen.: Dipl. Ing. W. Füchsl.

Stations:	ch	kW(W)		ch	kW(W)
Jauerling	E2	60/12H	Gaisberg	E8	60/12
Veitsch[1]	E3	10/2W	Hieflau[1]	E8	0.5/0.1W
Patscherkofel	E4	30/6H	Griesfeld[1]	E8	3/0.6W
Höfener Alm	E5	3/0.6W	Freinberg[1]	E9	10/2W
Schmittenhöhe[1]	E6	0.05/0.01	Mugel	E9	20/4
Kahlenberg	E5	60/12H	Sonnwendstein	E10	5/1
Pfänder	E5	80/16H	Pyramidenkogel	E10	30/6
Schladming[1]	E5	1/0.2W	Hahnbaum[1]	E10	0.1/0.02
Heuberg[1]	E6	0.08/0.016	Grünberg[1]	E11	5/1W
Kanzel[1]	E6	0.5/0.125W	Polster[1]	E11	10/2W
Lichtenberg	E6	60/12H	H. Kaibling	E11	10/2
Schöckl	E7	60/12H	Baumgarten[1]	E12	10/2W
Hartberg[1]	E7	30/6W	Kahlenberg II	E24	400/80**
Lorenzenberg[1]	E6	10/2W			

[1] Frequency-changer.
D. PRGR.: Sun, Wed: 16.00–21.30 (approx). Other days: 18.00–21.30 (approx) ** **Tec. Testprgrs:** Mo, Wed, Fri 17.30–19.00.

BELGIUM

RADIODIFFUSION-TELEVISION BELGE (RTB) – BELGISCHE RADIO EN TELEVISIE (BRT) (Go.)

FI.: By state grant-in-aids.
Addr.: RTB or BRT, Place Eugène Flagey 18, Brussels 5. **Cable:** RTB or BRT-TV. **Te.:** French 49.20.80, Flemish 48.64.30.
L.P.: French Prgr.: Dir.: L. P. Kammans. Flemish Prgr.: Dir.: B. Janssens. For Rel.: Dir.: L. Wallenborn.

French Prgr.: Def. 819

	ch	E	kW	
Ougrée	3		100/25	H
Bruxelles (Wavre)	8		100/25	H
Anlier	11		10/2.5	H
Bruxelles	7		5/1.25W	V*
Anseremme	5		10/2.5W	V*
Bouillon	9		10/2.5W	V*
Stavelot	5		5/1W	V*
Couvin	4		5/1W	H*
Hastiere-Lavaux	4		5/1W	H*

Flemish Prgr.: Def. 625

	ch	E	kW	
Bruxelles (Wavre)	10		100/25	H
Aalter	2		100/25	H
Antwerp	2		100/25W	V*
Brussel	11		5/1.25W	V*

* Satellites tr.'s.
D. Prgr.: French Prgr.: W 19.30–23.30. Sun 14.00–17.45, 19.30–23.30. **Flemish Prgr.:** W 18.00–21.30 (Tues, Fri also 13.05–14.00). Sun 14.00 21.30.

BULGARIA

BULGARIAN TELEVISION (Go.)

Addr.: G. Genov St. 7, Sofia. **Cable:** Tvbulgar. **Te.:** 7-08-71.
L.P.: Dir. Gen.: N. Ganchovski. Mgr.: V. Baev. Dir. Tec.: G. Fratev – **Station:** Ch.OIRT-VII 0.5/0.250 kW – **D. Prgr.:** Mo, Wed, Sat 17.00–20.30.

CZECHOSLOVAKIA

CESKOSLOVENSKA TELEVIZE

AD.: Approx. 20 min. weekly – **Addr.:** Československá televize, nám. M. Gorkého 29, Praha 1. **Cable:** Televize Praha. **Te.:** 221247 – **L.P.:** Dir. Gen.: A. Hradecky. Dir. Prgr.: Dr. V. Feldstein. Dir. Tec.: F. Svejkovsky. Dir. For. Rel.: L. Kubíček. Dir. Slovak TV (Bratislava): J. Vrabec.
STATIONS: Ch. OIRT Polarisation: H

PRAHA	ch	kW		BRNO	ch	kW	
Střední Čechy	1	30/6	H	Jižní Morava	9	10/2	H
Severní Čechy	12	8/1.6	V	**OSTRAVA**			
Západní Čechy	10	10/2	H	Severní Morava	1	10/2	H
Jižní Čechy	2	10/2	H	**BRATISLAVA**			
Východní Čechy	6	10/2	H	Západní Slovensko	2	10/2	H
				Střední Slovensko	7	10/2	H
				Východní Slovensko	6	10/2	V

D. PRGR.: Mo 17.00–21.30 (or 22.00), 08.30–10.30, 16.30–21.30 (or 21.45). Wed 14.00–15.30, 17.45–21.30 (or 22.00), Thurs 08.30–10.30, 16.00–21.30 (or 21.45), Fri 14.00–15.00, 17.45–21.45, Sat 14.00–16.00, 17.00–22.30 (or 23.00), Sun 08.30–11.00, 14.00–21.45 (or 22.00) – The unplanned sport and topical events are transmitted at other times than those mentioned above.

DENMARK

RADIO DENMARK (Go.)

FI.: By license payments – **Addr.:** Television Service, Radio Denmark, Radiohuset, Rosenørnsalle, Copenhagen. **Cable:** Danradio. **Te.:** 350647 – **L.P.:** Dir. Gen.: Hans Sølvhøj. Dir. Prgr.: J. Fr. Lawaetz.
Stations: Po.: H., Ch. E.

	ch	kW		ch	kW		ch	kW
Funen	3	10/3	Bornholm	5	10/3	Århus	8	10/3
Copenhagen	4	10/3	South Seeland	6	60/20	West Jutland	10	60/2
Ålborg	5	10/3	South Jutland	7	60/20			

D. PRGR.: 19.00 – approx. 21.00. Childrens H.: Mo, Tues 15.30–16.00 .Thurs 14.15–15.00, Fri 14.30–15.00, Sat 16.00–16.30.

FINLAND

SUOMEN TELEVISIO (Go. – limited comm. operation)

FI.: By license payments and limited earnings from adv.
ADDR.: Pasila, Ilmala, Helsinki. **Cable:** Yleisradio. **Te.:** 413355 – **L.P.:** See Sound Broadcasting.

Stations:	ch	kW	Po.		ch	kW	Po.
Hämeenlinna	5	5W	H	Tampere	8	80kW	H
Karhula	5	400W	V	Lahti	9	40kW	H
Kouvola	5	5W	H	Pori	9	200W	H
Lapua	5	80kW	H	Joutseno	10	10kW	H
Rauma	5	200W	H	Tammela	10	200W	H
Tammisaari	5	150W	H	Hanko	11	8W	V
Helsinki	6	10kW	H	Jyväskylä	11	10kW	H
Mikkeli	6	100W	V	Lohja	11	5W	H
Kuopio	7	45kW	H	Porvoo	11	2W	H
Mäntyharju	7	100W	H	Riihimäki	11	5W	H
Turku	7	45kW	H				

D. Prgr.: W 17.30–20.15(Sat 21.45). Sun 07.45–09.45, 12.45–14.30, 17.30–19.30.

OY MAINOS-TV-REKLAM AB:

An independent TV company for commercial prgr., to which the Finnish TV rents out its studios and channels. The daily advertising is made only in the beginning and at the end of the programmes – **L.P.:** P. Hanski – **D. Prgr.:** 12.00–12.30, 16.30–17.30 (Sat/Sun 19.30).

OY TESVISIO AB (Indep.)

FI.: By adv. Commercials (spots) up to 10%. Adv. are placed between the various prgr.'s and Tesvisio transmit up to seven min. of commercial spots per h – **Addr.:** Ratakatu 9, Helsinki. **Cable:** Tesvisio. **Te.:** 50233 – **L.P.:** Dir. Gen.: V. J. Nurmimaa. Dir. Prgr.: K. Ehder. Dir. Tec.: K. Terävsuo.
Stations: TES, Helsinki, ch E8 3/0.6 kW H – **D. Prgr.:** Mo 17.25–18.30, Tues 19.00–20.50, Wed 15.30–19.00, Thurs 15.45–19.05, Fri 20.00–21.35, Sat 16.00–20.45, Sun 17.30–19.00.

FRANCE

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)

Addr. and L.P.: See Sound Broadcasting.
Regional stations: Powers Sound = ¼ Vision powers indicated.

	ch	F	kW			ch	F	kW	
1) Bastia	2		0.05	V	19) Niort	7		20	V
2) Caen	2		20	H	20) Lille	8A		20	H
3) Limoges	2		20	H	21) Paris (Tour Eiffel)	8A		20	H
4) Troyes	2		20	H	22) Marseille	8		20	H
5) Ajaccio	4		0.05	H	23) Mulhouse	8		20	H
6) Nantes	4		20	V	24) Brest	8		5	H
7) Besançon	4		3	V	25) Bourges	9		20	H
8) Carcasonne	4		10	V	26) Bordeaux	10		0.5	H
9) Reims	5		10	V	27) Dijon	10		0.5	V
10) Rennes	5		20	H	28) Grenoble	10		0.05	H
11) Strasbourg	5		3	H	29) Rouen	10		10	H
12) Toulouse	5		0.5	H	30) Toulouse	10		0.05	H
13) Pic-de-l'Ours St. Raphael	6		3	V	31) Amiens	11		20	V
14) Clermont-Ferrand	6		10	V	32) Aurillac	11		0.5	V
15) Metz	6		10	H	33) Le Mans	12		10	V
16) Le Havre	7		0.05	H	34) Lyon	12		20	H
17) Gex	7		3	V	35) Perpignan	12		0.05	H
18) Nancy	7		0.05	V	36) Arrean-Pic-Lançon	12			H

Relay Stations: The figures refer to the regional stations above. P powers are indicated in Watts.
2) Cherbourg ch 12 500 W, H, Lisieux ch 6 3 W, H – 3) Perigueux ch 12 3 W, H, La Bourboule ch 9 0.3 W, H – 8) Millau ch 12 3 W, H – 9) Mezieres ch 8A, 500 (1) W, V, Bar-le-Duc ch 12, 3 W, V, Fumay ch 12, 3 W, V, Revin ch 9, 3 W, H – 10 Vannes ch 12, 500 W, H,

Perros-Guirec ch 12, 3 W, H – 11) Schiermeck ch 9, 3 W, V – 12) Lourdes ch 11, 3 W, H, Luz ch 12, 0.3 W, V, Tarascon ch 11, 3 W, H, Argeles ch 9 3 W, V, Villeneuve ch 12 3 W, H, La Rhume ch 9 40 W, V, Arreau ch 12 3 W, H, Arrens ch 12 0.3 W, H, Mauleon ch 10 3 W, H, Fumel-Montayral ch 10 6 W, H, Oloron ch 12 3 W, H, St. Front s/Lemance ch 5 0.5 W, V, Labroquere ch 12 3 W, H – 13) Breil ch 11 3 W, H, Nice ch 11 50 W, V, Draguignan ch 11 0.3 W, V, Menton ch 11 3 W, V, Sospel ch 12 0.3 W, H – 14) Autun ch 11 3 W, V, Pontaumur ch 11 0.3 W, H, Ambert ch 9 3 W, V, Champeix ch 11 0.3 W, H, Egliseneuve ch 10 0.3 W, H, Olliergues ch 10 0.3 W, H, St-Chely D'Apcher ch 11 0.3 W, H, St.-Flour ch 9 3 W, H, Vertolaye ch 11, 0.3 W, V – 15) Epinal ch 12 40 W, V, Longwy ch 12 40 W, V, Saint-Die ch 12 3 W, H, Sarreguemines ch 12 0.3 W, V, Vittel ch 12 3 W, H, Verdun ch 12 3 W, H, Villerupt ch 11 3 W, H, Cerardmer ch 12 3 W, H, Remiremont ch 11 3 W, H, Meyenmoutier ch 12 0.35 W, V, Neufchateau ch 12 3 W, H – 19) Le Blanc ch 11 0.3 W, H – 20) Boulogne ch 4 40 W, V – 21) Beauvais ch 5 3 W, H, Sens ch 11 40 W, V – 22) Aubenas ch 6 3 W, V, Cassis ch 4 0.3 W, H, Toulon ch 11 40 W, H, Ales ch 11 3 W, V, Digne ch 11 3 W, V, Cap ch 11 40 W, V, Apt ch 11 0.3 W, H, Nyons ch 11 0.3 W, H, Lodeve ch 11 0.3 W, H, Briancon ch 12 3 W, V – 23) Munster ch 6 3 W, H – 25(Auxere ch 6 3 W, H – 26) Arcachon ch 11 3 W, V – 27) Besancon ch 5 3 W, H, Lons-le-Saunier ch 6 3 W, H, Salins ch 5 3 W, H, Pontarlier ch 5 3 W, V, Nolay ch 5 3 W, H – 28) La Motte D'Avellians ch 5 0.3 W, V – 29) Fecamp ch 6 3 W, H, Bolbec ch 5 3 W, H, Evreux ch 5 3 W, H, Lillebonne ch 8 3 W, V, St. Valery-en-Caux ch 5 3 W, V – 30) Foix ch 6 0.3 W, V – 31) Eu ch 6 3 W, V, Ault ch 7 0.3 W, V – 32) St. Geniez d'Olt ch 7 0.3 W, H, Espallen ch 8 0.3 W, H, Sarlat ch 6 0.3 W, V, Viviez ch 8 0.3 W, H, Argentat ch 7 3 W, H, Champs S/Tarentaine ch 5 0.3 W, H.
33) Annecy ch 8 3 W, H, Chamonix ch 6 3 W, H, Megeve ch 7 10 W, V, St. Etienne ch 8 40 W, H, St. Gervais ch 9 10 W, H, St. Laurent-du-Pont ch 8 0.3 W, H, Voiron ch 7 3 W, V, Die ch 7 0.3 W, H, Lyon ch 5 500 W, H, (+ Tarare ch 9 3 W, H), Le Puy ch 5 3 W, H, Chambery ch 6 40 W, V, Nantua ch 6 3 W, H, St. Feray ch 7 0.3 W, H, Saint Antheme ch 7, 0.3 W, H, Murat ch 8 0.3 W, H, Aurec ch 5 0.3 W, H, Bourg Argental ch 5 0.3 W, H, Privais ch 5 3 W, H, Serrieres-Andance ch 7 3 W, H – 36) Cazaux-Frechet ch 8 3 W, H, Saint-Lary ch 6 0.3 W, V.

D. Prgr.: Paris (relayed by Dijon, Lille, Lyon, Marseille, Mulhouse, Nancy, Nantes, Rennes, Rouen, Strasbourg): Sun: 08.30–22.00, W 11.30–12.30, 17.30–22.00 or 22.30.

Projected Stations: many low power stations (intended for local reception improvement) to be installed.

Radio relay links between: Paris–Lille, Paris–Rouen–Le Havre-Caen –Rennes–Nantes–Brest, Paris–Reims–Troyes–Metz(–Luttange)–Nancy–Strasbourg–Mulhouse–Besançon. Paris–Ferreuse–Dijon–Lyon–Marseille–Cannes–Mont Agel–Corse. Lyon–Clermont Ferrand–Grenoble–St. Etienne. Paris–Ferreuse–Bourges–Limoges and Bordeaux–Toulouse–Carcassonne–Perpignan–Les Baleares–Alger. Metz–Luxembourg, Dabo–Hornisgrinde (Germany), Lille–Cassel–Dover.
The information concerns Metropolitan France only.

GERMANY

GERMAN FEDERAL REPUBLIC

A common prgr. is being broadcast throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition a number of **reg. broadcasts** are transmitted by each of the broadcasting organizations – **Community television prgr.** daily approx.: 16.00–17.00, 19.00–21.30. Sat 14.00–17.30, 19.00–21.30. Sun 10.00–21.30 – **Addr.:** Deutsches Fernsehen, Koordinationsbüro, München 23, Leopoldstr. 10 II – **L.P.:** Coordinators of German TV: Dr. Karl Mohr (1st Prgr.), Dr. H.-J. Lange (2nd Prgr.) – **FI.:** By license payments and adv. – **AD.:** Each of the German broadcasting organizations fix a price for adv. in relation to the number of viewers in their respective areas. The approx. transmission times for adv. are at present as follows: **BR:** W 17.30–19.00 – **HR:** 17.25–19.00 – **NDR:** W 17.20–19.00 – **R. Bremen:** See Sound Broadc. – **SDR:** W 17.30–19.00 – **SWF:** W 17.30–20.00 – **Saarländischer Rundfunk:** W 17.30–19.00 – **Sender Freies Berlin:** W 15.30–19.00 – **WDR:** W 17.40–19.00.

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

FI.: By license payments – **AD.:** D(exc. Sun) max. 12 mins.
Addr.: Fernsehdirektion des Bayerischen Rundfunks, Rundfunkplatz 1, Funkhaus, München 2. **Studio:** Florianmühlstr., München-Freimann – **L.P.:** Intendant des Bayerischen Rundfunks: Christian Wallenreiter. Dir. TV: Dr. Clemens Münster. Dir. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

Stations	ch	E	kW		ch	E	kW
Grünten	2		100/20H	Brotjacklriegel	7		100/20H
Kreuzberg	3		100/20V	Wendelstein	10		100/20H
Ochsenkopf	4		100/20V	Würzburg	10		1/0.2H
Dillberg	6		100/20H	Hohenpeissenb.	25		10/2H
				Hoher Bogen	55		225/45H

Low power stations

	ch	E	Watts		ch	E	Watts
Bad Reichenhall	5		5/1H	Bad Berneck	6		1.5/0.3V
Bad Tölz	5		25/5V	Lindau	9		100/20H
Eichstätt	5		5/1H	Kreuzeck	10		2/0.4H
Grassau	5		1/0.2H	Kulmbach	10		2/0.4V
Landshut	5		4/0.8V	Wunsiedel	10		10/2H
Passau	5		20/4V	Bad Kissingen	11		5/1H
Rauschberg	5		30/6V	Bamberg	11		20/4H
Tegernsee	5		2/0.4H	Berchtesgaden	11		2/0.4H
Hohe Linie	5		100/20V	Füssen	11		10/2H
Kelheim	5		10/2H	Lohr/Main	11		1/0.2H
Rothenburg	5		5/1H	Neustadt/A.	11		2.5/0.5H

Projected st.: Hoher Bogen UHF-band 5.
Moreover numerous satellite st.'s.
Testtransmissions: 09.00–11.00, 12.00–15.50, Sat 12.00–15.50.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr.: 6 Frankfurt am Main, Bertramstrasse 8. **Cable:** Hessfunk. **Te.:** 59051 – **Telex:** 04-11127 – **L.P.:** Intendant: W. Hess. Prgr. Dir. (TV): Hans Otto Grünefeldt. Dir. Tec.: Dr.-Ing. Franz Miseré. TV Play: Dr. R. Trachsler (ccmm.). TV Entertainment: Dr. A. Zeckl (ccmm.). TV News: W. Hanke – **Stations:** Feldberg ch E8 100/10 kW H – Meissner ch E7 100/10 kW H – Biedenkopf ch E2 20/2 kW V, d – **Frequency changers:** Po.: H. *Directional aerial.

	ch	Watts		ch	Watts
Marburg*	11	30/6	Birkenau/Odw.*	11	1/0.5
Dillenburg	5	3/0.5	Höchst/Odw.*	11	3/0.5
Bad Orb*	10	1/0.5	Salmünster*	11	3/0.5
Hardberg*	5	1000/100	Fulda	11	25/5
Erbach/Odw.	6	0.75/0.5	Bad Sooden-Allendorf	9	1/0.5
Bad König	6	1/0.5	Bad Hersfeld	9	10/0.5
Biedenkopf	6	1/0.5	Rotenburg (Fulda)	9	3/0.5
Michelstadt	11	5/0.5	Schlüchtern	6	3/0.5
Philippsthal*	9	3/0.5	Weilmünster	11	1/0.5
Kammerforst*	9	10/3	Michelbach	11	3/0.5
Bad Schwalbach*	5	1/0.5	Melsungen	9	1/0.5
Haiger*	6	1/0.5	Spangenberg	9	1/0.5
Wetzlar*	11	10/5			

D. Prgr.: 16.00–17.00, 17.25–21.30. Sun also 10.00–16.00. **Test tr.'s:** W 09.00–11.00, 12.00–15.50. 2nd Prgr. (tr.'s of Deutsche Bundespost) D 19.00–21.30 (approx).

RADIO BREMEN (Anstalt des öffentlichen Rechts).

FI.: By license payments– **AD.:** D (exc. Sun) max. 17 min. – **Addr.:** & **L.P.:** See Sound Broadcasting – **Stations:** Bremen ch E22 10/2 kW, H – Bremerhaven ch E5 30/6 W, V.

NDR-FERNSEHEN

Addr.: Hamburg-Lockstedt, Gazellenkamp 57. **Te.:** 580221.
L.P.: Intendant: G. Schröder. Dir. Prgr.: Dr. H. Arnold. Presse: H. Ruppersberg. Zeitgeschehen & Nordschau: R. Proske. Tageschau: H.-J. Reiche. Fernsehspiele E. Monk. Musik W. Zillig.

Stations:	ch	kW	Pol.		ch	kW	Pol.
Oldenburg/Steinkimmen	2	100	H	Heide	10	25	V
Flensburg	4	50	H	Harz	10	100	H
Kiel	5	5	H	Bungsberg	50	230	H
Hannover	8	5	H	Lingen	41	35	H
Hamburg	9	100	H	Dannenberg	43	150	H
				Aurich	53	230	H
				Oldenburg/Steink.	55	400	H

Frequency-changers:	ch	Watts	Pol.		ch	Watts	Pol.
Goslar/Oker	5	30	H	Osterode	8	1	V
Bad Grund I	5	2	V	Helgoland II	8	05.	H
Osnabrück	5	60	V	Hahnenklee	8	1.5	V
Hameln/Weser	5	12	V	Hess. Oldendorf	8	25	V
Freden	5	3	V	B. Salzdetfurth I	8	1	V
Helgoland I	5	0.5	H	Zorge	8	0.5	H
Wildemann I	5	2	V	Wildemann II	8	0.5	H
Königslutter	5	30	V	Wieda	8	0.6	H
Stadtoldendorf	5	1.5	V	Göttingen	9	60	V
Cuxhaven	6	100	V	Alfeld	9	2.5	H
Bad Harzburg	7	1	H	Bodenwerder	9	1	H
Lübeck	7	300	V	Bad Lauterberg I	9	3	H
Rinteln	7	8	V	Bad Grund II	9	0.25	H
Holzminden	8	4	H	Grafensund./Iburg	10	25	V
St. Andreasberg	8	2	V	Bad Sachsa	11	5	H
Braunlage	8	1	H	B. Salzdetfurth II	11	0.75	V
Hann. Münden	8	10	H	Lautenthal	11	1.2	V
Uslar	8	1	V	Bad Lauterberg II	11	10	V

D. Prgr.: Test-tr.'s: Hamburg: Mo 12.00–15.45. Tues-Fri 09.00–11.00 & 12.00–15.45. Sat 09.00–11.00 – **Regional Prgr.:** W 17.45–18.35. Sun 18.00–18.30 – **AD.-TV:** W 18.25–19.00 – V. by QSL-card.

WDR FERNSEHEN

First TV-Prgr.: Polarization: H.

Stations:	ch.	E kW(ERP)		ch.	E kW(ERP)
Aachen-Stolb.	24	200/40	Münster	32	250/50
Bonn*	5	0.5/0.1	Nordhelle	30	5/1
Kleve	58	8/0.16	Teutob. Wald	11	100/20
Köln	11	5/1	Wuppertal*	6	0.6/0.12
Langenberg	9	100/20			

plus 119 low power frequency changers. *=Satellite s.t

Second TV-Prgr.: Polarization: H. Stations of "Deutsche Bundespost"

Stations:	ch.	E kW(ERP)		ch.	E kW(ERP)
Aachen	37	500/100	Düsseldorf	29	500/100
Bonn	26	100/20	Wuppertal	22	100/20
Bielefeld	33	500/100	Minden	26	200/40
Dortmund	25	500/100			

D. Prgr. Testtr.: 1st Prgr.: W 09.00–11.00, 12.00–17.00 (Sat 13.00). 2nd Prgr.: W 09.00(Wed 13.00)–18.30 – **Reg. Prgr.:** 1st Prgr.: W 17.40(Sat 13.00)–18.15. 2nd Prgr.: W 18.30–19.00 (until 31/3 63 only) – **Common Prgr.:** 1st Prgr.: W 16.00(Sat 14.00)–17.00, 19.00–at least 21.00. Sun 10.00–at least 21.00. 2nd Prgr.: D 19.00–at least 21.00 (until 31/3 63 only) – **AD.:** W 18.15–19.00 (1st Prgr.).

SAARLÄNDISCHES FERNSEHEN A. G. (Comm.)

FI.: By license payments and adv. – **AD.:** 18.10–19.00 – **Addr.:** Schloss Halberg, Saarbrücken, Postfach 1050. **Cable:** Rundfunk Saar. **Te.:** 6021 – **L.P.:** See Sound Broadcasting.

Stations: Göttelborner Höhe ch E2 100/20 kW, V – Merzig ch E11 035/0.7 Watt, H – Saarbrücken ch E11 50/10 W, H – Neuweiler ch E6 50/10 W, H – Mettlach ch E9 3/0.6 W, H – St. Ingert ch E11 2/0.4 W, V. **D. Prgr.: Reg. Prgr.:** "Werbesendung" 17.30–18.58.

SENDER FREIES BERLIN

FI.: By license payments – **Addr.:** Fernsehen, Masurenallee 8/14, 1 Berlin 19. **Cable:** Sender Freies Berlin. **Te.:** 92031 – **L.P.:** Intendant: W. Steigner. Dir. Prgr.: H. H. Fischer. Dir. Tec.: Dipl. Ing. U. Blässer **Station:** Berlin-Witzleben ch E7 50/10 kW – **D. Prgr.:** W 16.00–17.00, 19.00–21.30. Sun 11.00–17.00. **Reg. Prgr.:** W 18.25–19.00. Testtr.: W 12.00–15.25.

SÜDDEUTSCHER RUNDFUNK FERNSEHEN

(Anstalt des öffentlichen Rechts)

FI.: By license payments – **Addr.:** Neckarstrasse 145, 7000, Stuttgart. **Cable:** Südfunk. **Te.:** 299701 – **L.P.:** TV-Dir.: H. Jaedicke. Dir. Tec.: Dr. H. Rupp – **Stations:** Aalen ch E8 20/4 kW, V – Heidelberg I ch E7 50/10 kW, V – Heidelberg II ch E50 500/100 kW, H – Stuttgart ch E11 100/20 kW, H – Waldenburg ch E9 100/20 kW – Pforzheim ch E5 0.05/0.01 kW, H* – Ulm ch E11 0.03/0.006 kW, V* – Geislingen ch E6 0.003/0.0006 kW, V*

* Frequency changers.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

FI.: By license payments – **AD.:** W 17.30–17.50, 18.20–19.00 – **Addr.:** Südwestfunk Fernsehen, Hans Bredowstr., Baden-Baden. **Cable:** Südwestfunk. **Te.:** 761 – **L.P.:** See Sound Broadcasting.

Stations:	ch	E kW(ERP) (max.)	Pol.	ch	E kW(ERP) (max.)	Pol.
Raichberg	4	40/8	H	Weinbiet	6	30/6	H
Trier	5	0.6/0.12	H	Eifel	23	20/4	H
Koblenz	6	50/10	H	Haardtkopf	25	200/40	H
K'lautern	7	03/0.06	H	Eggberg	22	0.8/0.16	H
Zweibrücken	7	0.08/0.01	H	Waldshut	21	1/0.2	H
Freiburg	7	0.021/0.04	H	Wannenberg	28	5/1	H
Baden-Baden	7	0.3/0.06	H	Mainz	11	1/0.2	H
Hornisgr.	9	100/20	H	Saarburg	31	20/4	H
Feldberg i Schw.	8	100/20	H	Donnersberg	10	100/20	H

+103 low power-freq. satellites.

D. Prgr.: 16.00–17.00, 17.30–22.00 (Reg. prgr. 17.30–19.00) – **Testtr.:** W 09.00–11.00, 12.00 to approx. 15.50.

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHER FERNSEHFUNK (Go.)

FI.: By state – **AD.:** Twice weekly before 18.00 – **Addr.:** Deutscher Fernsehfunk, Berlin-Adlershof, Rudower Chaussee 116. **Cable:** Fernsehfunk Berlin. **Te.:** 642021 – **L.P.:** Intendant: Heinz Adameck. Prgr. Leitung: Walter Heynowski. Techn. Leitung: Rolf Kramer.

Stations: Berlin E5 – Brocken E6 – Cottbus E4 – Helpterberg E3 – Inselberg E5 – Karl Marx-Stadt E8 – Leipzig E9 – Marlow E8 – Schwerin E11 – Dresden E10 – **D. Prgr.:** Test-transmissions: approxi 11.00–13.30 and approx 14.00–15.00, 16.00–17.00. Prgrs.: Mo–Fr. (approx.) 09.00–11.00, 15.00–21.00. Sat (approx.) 09.00–11.00, 13.00–22.00. Sun (approx.) 09.00–22.00 – **Publ.:** Funk und Fernsehen, weekly.

GREAT BRITAIN

BRITISH BROADCASTING CORPORATION

The BBC's Television Service is an integral part of the British Broadcasting Corporation.

Addr. and L.P.: See Sound Broadcasting.

Stations:	ch	kW		ch	kW	
Divis	1	12	H	Rowridge[9]	3	1–100ø	V
Crystal Palace[1]	1	200	V	Blaen-plwyf (W.Wales)	3	1–3ø	H
Thrumster[6]	1	0.25–7ø	V	Morecambe Bay	3	1.85d	H
Sheffield	1	0.05	H	Swindon	3	0.08d	H
Llandrindod Wells	1	1.3	H	Sandale	4	10–28ø)	H
Redruth	1	1.2–9.6ø)	H	Les Platons[4]	4	1	H
Llanddona	1	0.27–5ø)	V	Sutton Coldf.	4	100	V
Dover	2	0.04–1.4ø)	V	Folkstone	4	0.07max.	H
Holme Moss[2]	2	100	V	Meldrum	4	4–17ø)	H
Brighton	2	0.04–0.4ø)	V	Hastings	4	0.002	H
Londonderry[8]	2	0.5–1.5ø)	H	Mannigtree	4	0.5–4.8ø)	H
N.Hessary T.	2	1.5–15ø)	V	Wenvoe	5	100	V
Rosemarkie	2	0.5–1.5ø)	H	Pontop Pike	5	12	H
Dover	2	0.04–1.4ø)	V	Douglas[7]	5	0.18–2.8ø)	V
Oxford	2	0.15–0.7ø)	H	Peterborough	5	1	H
Kirk o'Shoots[3]	3	100	V	Orkney	5	4–14ø)	V
Tacolneston[5]	3	2–44ø)	H	Fort William	5	1.6	H

[1]) London. [2]) Nr. Huddersfield. [3]) C. Scotland. [4]) Channel Islands. [5]) Norwich. [6]) N. E. Scotland. [7]) Isle of Man. [8]) N. Ireland. [9]) Isle of Wight. ø) Directional transmitting aerial.

These 34 st.'s serve nearly 99% of the United Kingdom population.

D. Prgr.: All stations: Trade Test transmissions: Mo–Sat 10.00–13.00. Prgr. Hours approx.: Mo-Fri 10.00–12.00, 14.00–14.40. For Schools (during term-time), 14.00–15.30; 17.00–23.05. Sat 13.45–23.00. Sun 14.00–18.15, 19.00–23.00.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) Comm.

FI.: Prgr. contractors financed solely from advertising revenue. I.T.A. financed solely from rentals paid by contractors – **AD.:** 6 mins. per h averaged over the day. Max. in any 1 h 7 mins. – **Addr.:** 70 Brompton Road, London, S.W. 3. **Te.:** Knightsbridge 7011 – **L.P.:** Chairman: Sir I. Kirkpatrick, G.C.B., G.C.M.G. Dir. Gen.: Sir Robert Fraser, O.B.E. Enquiries to Information Officer.

Stations: ch B	ch	Po.	kW(ERP)	Area served
Croydon	9	V	120	London
Lichfield	8	V	400	Midlands area
Winter Hill	9	V	100	Norths area
Emley Moor	10	V	200	Norths area
Black Hill	10	V	475	C. Scotland
St. Hilary	10	V	200	S. Wales, W. England
Chillerton Down	11	V	100	So. England
Dover	10	V	100	So. England
Burnhope	8	H	100	N.-Ea. England
Mendlesham	11	H	200	Ea. Anglia area
Black Mountain	9	H	100	No. Ireland
Strabane	8	V		No. Ireland
Stockland Hill	9	V	100	So. We. England
Caradon Hill	12	V	200	So. We. England
Caldbeck	11	H	100	The Borders
Selkirk	13	V	25	The Borders
Durris	9	H	400	N. Ea. Scotland
Mounteagle	12	H	50	N. Ea. Scotland
Fremont Point	9	H		Channel Islands
Presely	8	H		We. and No. Wales
Llyn	10	H		We. and No. Wales
Moel-y-Parc	11	V		We. and No. Wales

* Maximum ERP.

Prgr. Companies: Independent T.V. News Ltd. – Westward T.V. Ltd. – Border T.V. Ltd. – Channel Television Ltd. – Independent Television Companies Association – Grampian T.V. Ltd. – Wales (West & North) Television Ltd. – **D. Prgr.:** Approx: Mo–Fri 14.30–23.30. Sat 13.00–23.30. Sun 11.00–23.30. Testtransmission: 09.00–14.30 – **Publ.:** Principal journal weekly.

GIBRALTAR

GIBRALTAR TELEVISION (Go., Comm.)

Addr.: Office: 28 John Mackintosh Square, Gibraltar. Studios: Television House, Queensway, Gibraltar. **Cable:** Geeteevee. **Te.:** 3355 – **L.P.:** Dir. Gen.: E. H. Davies OBE. St. Mgr.: P. F. Cookman. Dir. Tec.: R. Bolton. – **Station:** ch E6 30/10 Watts H. **D. Prgr.:** W 09.30–11.30, Tues, Fri: 20.00–22.30.

HOLLAND

NEDERLANDSE TELEVISIE STICHTING (N.T.S.)

Addr.: P.O. Box 10, Hilversum. **Cable:** Televisie. **Te.:** 0 2950/16851 – The Dutch prgr.'s are provided by the N.T.S. and the broadcasting societies as mentioned under Sound broadcasting – **Board of the N.T.S.:** Chairman: E. A. Schüttenhelm. Secr.: H. W. van Doorn L.L. D. Members: H. Algra, J. B. Broeksz, Prof. Dr. T. T. tem Have.

Dr. J. A. de Koning, Miss W. M. W. van Lanschot L.L.D., A. J. J. van der Made M. E., N. Padt, J. W. Rengelink, Jhr. Th. Röell, A. B. Roosjen L.L.D., A. H. van der Veen L.L.D., H. de Wolf – **Stations:** **Lopik** ch E4 100/20 kW H. **Roermond** E5 50/10 kW H. **Smilde** E6 50/10 kW H. **Goes** E7 5/1 kW H. **Markelo** E7 30/6 kW H. **Huisduinen** E10 1/0.2 kW H. **D. Prgr.:** Sun 18.30–21.30, Mo 18.30–21.45, Tues 18.30–21.20, Wed 16.00–16.45, 18.30–21.35, Thurs 13.30–14.30, 18.30–21.50, Fri 18.30–21.35, Sat 14.00–16.45, 18.30–21.50.

HUNGARY

MAGYAR RADIO ES TELEVIZIO (Go.)

Addr.: Television Direction, V. Szabadsagter 17, Budapest. **Te.:** 113-200 – **L.P.:** Dir.: F. Kulcsár. Dir. Tec.: R. Kerpel.

Stations:	ch	kW			ch	kW	
Budapest I	I	30/10	H	Sopron	IX	0.05/0.01	V
Pecs	II	5/1.5	H	Tokaj	IV	2/0.5	H
Miskolc	IX	0.05/0.01	H	Kékes	VII	20/8	H
Szentes	XI	20/10	H	Kabhegy	XII	20/5	H

D. Prgr.: Tues, Wed, Thurs, Sat 17.00–22.00. Sun 09.00–11.00, 15.00–22.00.

IRELAND

RADIO ÉIREANN TELEFIS (Statutory Corp.)

FI.: By license payments and adv. – **AD.:** 10% of prgr. hrs.
Addr.: 34-37 Clarendon Street, Dublin. **Te.:** 693111 – **L.P.:** Dir. Gen.: J. Roth. Prgr. Controller: M. Barry. Dir. Tec.: P. Parker.
Stations: [1]) 625 lines. [2]) 405 lines.
Mt. Kippure[2] 184.75/181.25 Mc 100/25 kW H – Truskmore[2] ch 204.75/201.25 Mc 100/20 kW V – Kippure[1] 207.25/213.25 Mc 100/20 kW H – Maghera[1] 53.75/59.75 Mc 50/10 kW H – Mt. Leinster 191.25/97.25 Mc 100/20 kW V – Mullaghanish 175.25/181.25 Mc 100/20 kW V – Truskmore 215.25/221.25 Mc 100/20 kW V – **D. Prgr.:** 17.30–23.15.

ITALY

RADIO-TELEVISIONE ITALIANA (State Service granted by public act to R.A.I.)

FI. & AD.: See Sound Broadcasting – **Addr.:** Direzione Centrale TV, Via del Babuino 9, Roma – **L.P.:** Dir. Prgr. TV: Dr. Sergio Pugliese. Dir. Tec. TV: Eng. Gino Orsini.
Stations. The National Prgr.:
o=H. v=V. The first letter in the brackets indicate the channels (see page 207).

PIEMONTE: Bardonecchia (D-o) – Borgo S. Dalmazzo (E-o) – Candoglia (E-v) – Canelli (F-v) – Cannobio (E-o) – Ceva (G-o) – Colle Croce di Ceres (F-o) – Cortemilia (F-v) – Demonte (D-o) – Dogliani (G-v) – Domodossola (H-v) – Fenestrelle (D-o) – Garessio (A-v) – Gavi (E-v) – Limone Piemonte (D-o) – Mondovi (F-o) – Monte Banchetta (E-v) – Ormea (E-o) – Ovada (D-o) – Pian di Mozz o (D-o) – Pont Canavese (D-o) – Premeno (D-v) – San Colombano (H-v) – San Maurizio di Frassino (D-v) – Santa Maria Maggiore (E-o) – Sestriere (G-o) – Susa (E-o) – Torino (C-o) – Torino Collina (H-v) – Trivero (F-o) – Valduggia (D-o) – Varallo Sesia (H-o) – Varzo (G-o) – Villadossola (F-o) – Villar Perosa (H-o) – .

VALLE D'AOSTA: Aosta (D-o) – Champoluc (D-v) – Col de Courtil (E-v) – Col de Joux (F-o) – Courmayeur (F-o) – Plateau Rosa (H-o) – Saint Vincent (G-o) – Torgnon (D-o).

LOMBARDIA: Airuno (F-v) – Aprica (F-v) – Bellagio (D-o) – Bienno (D-v) – Bocca di Croce (F-v) – Bravadina (D-o) – Breno (F-o) – Brunate (H-v) – Chiavenna (H-o) – Clusone (F-o) – Como (F-v) – Edolo (G-v) – Esmate (E-o) – Gardone Val Trompia (E-o) – Gavardo (H-o) – Lecco (H-o) – Leffe (E-v) – Madonna di Oga (F-o) – Marone (F-v) – Milano (G-o) – M. Creò (H-o) – M. Marzio (F-o) – M. Padrio (H-o) – M. Penice (B-o) – Naggio (F-o) – Nossa (D-o) – Oggiono (D-v) – Ossimo (A-o) – Pigra (A-o) – Poira (G-v) – Ponte Chiasso (D-v) – San Pellegrino (D-v) – Sandalo (F-o) – Sondrio (D-v) – Stazzona (E-v) – Tirano (A-o) – Valle San Giacomo (F-o) – Valtesse (E-v).

SARDEGNA: Alghero (H-v) – Arbus (H-o) – Arzana (H-v) – Bitti (E-o) – Cagliari (H-v) – Campu Spina (F-o) – Castelsardo (E-v) – Cuglieri (G-v) – Desulo (F-o) – Fluminimaggiore (H-v) – Gairo (H-v) – Gonnesa (E-v) – Marmilla (E-v) – M. Limbara (H-o) – M. Ortobene (A-o) – M. Serpeddi (G-o) – Narcao (E-o) – Nule (G-o) – Ogliastra (E-o) – Orosei (H-o) – Ozieri (E-v) – P. Badde Urbara (D-o) – S. Antioco (B-v) – Sarrabus (D-v) – Sassari (F-o) – Sennori (H-v) – Siniscola (H-v) – Teulada (E-o).

TRENTINO-ALTO ADIGE: Badia (F-o) – Bassa Val Lagarina (F-o) – Bolzano (D-o) – Borgo Val Sugana (F-o) – Brennero (F-o) – Brunico (H-o) – Cima Palon (H-o) – Cima Penegal (F-o) – Col Alto in Badia (H-o) – Col Plagna (F-o) – Conca di Tesino (E-o) – Fiera de Primiero (E-o) – Forte Carriola (F-o) – Grigno (H-v) – Lasa (F-o) – Madonna di Campiglio (F-o) – Malles Venosta (E-o) – Marca di Pusteria (D-v) – Merano (H-o) – Mezzolombardo (D-v) – Mione (D-v) – Molveno (H-o) – Monte Elmo (F-o) – Paganella (G-o) – Passo Gardena (E-o) – Pinzolo (E-o) – Plose (E-o) – Prato allo Stelvio (G-o) – Predonico (E-o) – Riva del Garda (E-v) – Rovereto (E-o) – San Martino di Castrozza (H-v) – Santa Giuliana (D-v) – Tesero di Fiemme (E-o) – Tione (E-o) – Val di Cembra (D-v) – Val di Fassa (H-o) – Val di Pejo (E-o) – Val di Sole (H-o) – Val Gardena (D-v) – Val Venosta (A-o) – Valle Isarco (H-v) – Ziano di Fiemme (F-o).

VENETO: Agordino (E-o) – Alleghe (G-o) – (Alpago (E-o) – Arsiè (E-o) – Arsiero (H-v) – Asiago (F-v) – Auronzo D-o) – Calalzo (F-o) – Col del Gallo (B-v) – Col Perer (F-o) – Col Visentin (H-o) – Comelico (G-o) – Cortina d'Ampezzo (D-v) – Feltre (B-o) – Follina (G-v) – Fonzaso (G-o) – Malcesine (H-v) – M. Celentone (B-o) – M. La Gusella (H-o) – Monte Pianar (F-v) – Monte Raga (H-v) – M. Venda (D-o) – Montecchio Maggiore (F-o) – Pieve di Cadore (A-o) – Recoaro (G-v) – S. Pietro di Cadore (D-v) – Sappada (F-o) – Soverzene (F-v) – Tarzo (B-v) – Valdagno (F-v) – Valle del Boite (F-o) – Valle del Chiampo (E-o) – Valli del Pasubio (F-o) – Valpantena (G-o) – Valstagno (F-o) – Verona (F-o) – Vicenza (G-v) – Vittorio Veneto (F-o).

FRIULI-VENEZIA GIULIA: Ampezzo (H-v) – Cesclans (E-o) – Claut (F-o) – Colle di Ul (D-o) – Forni Avoltri (H-o) – Forni di Sotto (G-o) – Gorizia (B-v) – Moggio Udinese (G-o) – Monte Prisnig (F-o) – Monte Santo di Lussari (E-o) – Monte Tenchia (G-o) – Ovaro (D-v) – Paularo (H-o) – Pontebba (B-o) – Ravascletto (E-o) – Tolmezzo (B-o) – Trieste (G-o) – Trieste Muggia (A-v) – Udine (F-o).

LIGURIA: Bordighera (C-o) – Borzonasca (B-v) – Bric Mondo (F-o) – Busalla (F-o) – Cairo Montenotte (G-v) – Camaldoli (F-v) – Cengio (B-v) – Finale Ligure (E-v) – Genova Polcevera (D-v) – Genova Righi (B-o) – Imperia (E-v) – La Spezia (F-o) – Levanto (F-o) – Masone (E-v) – M. Burot (E-o) – M. Capenardo (E-o) – M. Tugio (F-o) – Oregina (G-v) – Pieve di Teco (F-o) – Portofino (H-o) – Riomaggiore (E-v) – Ronco Scrivia (H-v) – San Nicolao (A-v) – Sanremo (B-o) – Sassello (F-o) – Savona (F-o) – Taggia (G-v) – Torriglia (G-o) – Val di Vara (E-v).

EMILIA-ROMAGNA: Bagno di Romagna (G-v) – Bardi (H-o) – Bedonia (G-v) – Bertinoro (F-v) – Bologna (G-v) – Borgo Tossignano (H-v) – Borgo Val di Taro (E-o) – Brisighella (H-v) – Casola Valsenio (G-o) – Castelnuovo nei Monti (G-v) – Castrocaro (B-o) – Civitella di Romagna (H-v) – Farini d'Olmo (F-o) – Fornovo di Taro (A-v) – Langhirano (F-o) – Ligonchio (E-o) – Loiano (E-v) – Marzabotto (H-o) – Mercato Saraceno (G-o) – Modigliana (G-o) – Monchio Delle Corti (H-o) – M. Santa Giulia (F-v) – Montese (H-v) – Morfasso (E-v) – Neviano degli Arduini (H-v) – Pavullo nel Frign. (G-o) – Pievepelago (G-o) – Porretta (G-v) – Rocca S. Casciano (F-o) – Salsomaggiore (F-o) – S. Benedetto Val di Sambro (F-o) – Santa Sofia (E-v) – Vergato (B-v).

TOSCANA: Abetone (E-o) – Aulla (H-v) – Bagni di Lucca (B-o) – Bagnone (E-v) – Bassa Garfagnana (F-o) – Borgo a Mozzano (E-v) – Camaiore (B-v) – Carrara (G-o) – Casentino (B-o) – Casola in Lunigiana (B-o) – Castiglioncello (G-o) – Colle Val D'Elsa (G-v) – Firenze (F-o) – Firenzuola (H-o) – Fivizzano (E-o) – Gaiole in Chianti (B-o) – Garfagnana (G-o) – Gorfigliano (H-v) – Greve (H-v) – Lunigiana (G-v) – Marradi (G-v) – Massa (H-v) – Minucciano (E-v) – M. Argentario (E-o) – M. Pidocchina (F-v) – M. Serra (D-o) – Mugello (H-o) – Palazzuolo sul Senio (F-v) – Piazza al Serchio (A-v) – Pietrasanta (A-o) – Pieve S. Stefano (F-v) – Piombino (G-v) – Pontassieve (E-o) – Quercianella (F-v) – Rufina (F-o) – San Cerbone (G-o) – S. Giuliano Terme (G-o) – S. Marcello Pist. (H-v) – Santa Fiora (B-o) – Sassi Grossi (F-v) – Scarlino (F-o) – Seravezza (G-o) – Stazzema (B-o) – Vaiano (E-o) – Vallecchia (E-o) – Val Taverone (A-o) – Vernio (B-o) – Zeri (B-o).

MARCHE: Acquasanta Terme (F-o) – Ancona (G-v) – Antico di Maiolo (H-v) – Arquata del Tronto (D-v) – Ascoli Piceno (G-o) – Belvedere di Sorbano (B-o) – Camerino (F-v) – Castelsantangelo (F-o) – Fabriano (G-o) – Fermo (B-v) – Fiuminata (H-v) – Macerata (G-o) – M. Conero (E-o) – M. Nerone (A-o) – Muccia (D-v) – Pioraco (D-v) – Punta Bore Tesino (D-o) – San Paolo (B-v) – S. Severino Marche (H-o) – Santa Lucia in Consilvano (H-v) – Sassoferrato (D-v) – Sentino (H-v) – Serra San Quirico (H-v) – Serravalle di Chienti (G-o) – Tolentino (B-v) – Visso (D-o).

UMBRIA: Cascia (E-v) – Guadamello (E-v) – Gubbio (E-v) – M. Peglia (H-o) – Norcia (G-o) – Sellano (F-v) – Spoleto (F-o) – Terni (F-v).

LAZIO: Acquapendente (F-o) – Altipiani Arcinazzo (H-v) – Amaseno (A-o) – Amatrice (F-v) – Antrodoco (E-v) – Bolsena (F-v) – Borgorose (G-v) – Campo Catino (F-o) – Carpineto Romano (D-v) – Cassino (E-o) – Civitacastellana (F-o) – Fillettino (E-o) – Fiuggi (D-o) – Fondi (H-v) – Formia (G-v) – Gaeta (E-o) – Isola Liri (E-v) – Itri (F-v) – Lenola (E-v) – Leonessa (D-v) – M. Favone (H-o) – Pescorocchiano (D-o) – Rocca d'Arce (F-v) – Roma (G-o) – Segni (E-o) – Settefrati (F-v) – Sezze (F-o) – Subiaco (D-o) – Terminillo (B-v) – Vallecorsa (F-v) – Vallepietra (E-v) – Velletri (E-v) – Vicalvi (D-v).

ABRUZZI-MOLISE: Barrea (E-v) – Campli (G-v) – Campobassa (E-v) – Campo Imperatore (D-o) – Campotosto (G-v) – Capracotta (E-o) – Caramanico (G-o) – Casoli (D-o) – Castel di Sangro (G-o) – Cercemaggiore (F-v) – Civita D'Antino (G-v) – Fano Adriano (C-o) – Fucino (D-v) – Isernia (G-v) – L'Aquila (F-v) – Larino (D-v) – Lucoli (F-o) – Monte Cervaro (D-v) – M. Cimarani (F-o) – Monteferrante (A-o) – M. Patalecchia (E-o) – Montorio al Vomano (G-v) – Oricola (E-o) – Pescara (F-o) – Pescasseroli (D-o) – Piana di Navelli (H-v) –

Pietra Corniale (D-v) – Pietragrnde (B-o) – Riccia (E-o) – Roccarasao (F-o) – Scanno (H-v) – Schiavi d'Abruzzo (G-o) – Sulmona (E-v) – Teramo (D-v) – Torricella Peligna (G-o) – Vasto (G-v) – Villa Ruzzi (G-v).

CAMPANIA: Agnone (E-o) – Airola (E-o) – Benevento (G-o) – Campagna (G-o) – Caposele (H-v) – Capri (F-v) – Fontegreca (E-v) – Forio d'Ischia (H-v) – Golfo di Policastro (F-o) – Golfo di Salerno (E-v) – Gragnano (G-v) – M. Faito (B-o) – M. Vergine (D-o) – Napoli - Camaldoli (E-o) – Nusco (F-o) – Padula (D-v) – Postiglione (G-o) – Presenzano (F-v) – S. Agata dei Goti (H-v) – S. Maria a Vico (F-o) – Santa Tecla (F-o) – Sorrento (F-o) – Teggiano (F-o) – Valle Telesina (E-v).

PUGLIE: Bari (F-v) – Castro (F-o) – Martina Franca (D-o) – Monopoli (G-v) – M. Caccia (A-o) – M. d'Elio (B-v) – M. Sambuco (H-o) – Salento (H-v) – S. Marco in Lamis (F-v) – S. Maria di Leuca (E-o) – Sannicandro Garg. (E-v).

BASILICATA: Anzi (F-v) – Baragiano (G-v) – Chiaremonte (H-o) – Lagonegro (H-o) – Marsico Nuovo (F-o) – Matera (E-v) – Moliterno (E-o) – Monte Macchia Carrara (E-o) – Pescopagano (G-v) – Potenza (H-o) – Seta di Calvello (H-v) – Spinoso (G-v) – Tempa Candore (B-v) – Tramutola (E-v) – Trecchina (E-v) – Tursi (F-o) – Viggianello (F-v).

CALABRIA: Acri (H-v) – Capo Spartivento (H-o) Casignana (F-v) Catanzaro (F-v) – Chiaravalle Centrale (E-v) – Crotone (B-v) – Gambarie (D-o) – Grisolia (G-v) – Guardavalle (G-o) – Lago (F-v) – Longobucco (G-v) – Mammola (B-o) – Mesoraca (G-v) – Montebello Jonico (B-o) – Monte Scavo (A-v) – M. Scuro (G-o) – Morano Calabro (E-o) – Nocera Tirinese (F-o) – Paterno Calabro (A-v) – Pazzano (D-v) – Pizzo (H-v) – Plati (D-v) – Roseto Capo Spulico (F-v) – S. Giovanni in Fiore (E-v) – S. Marco Argentano (H-o) – Sellia (G-v) – Serra S. Bruno (H-v) – Solleria (D-v) – Valle Crati (E-v).

SICILIA: Agrigento (H-o) – Alcamo (E-v) – Belvedere di Siracusa (G-o) – Borgetto (G-o) – Capo d'Orlando (F-o) – Carini (F-v) – Castelbuono (F-o) – Castiglione di Sicilia (G-v) – Cinisi (G-v) – Corleone (G-v) – Fondachello (H-v) – Galati Mamertino (C-o) – Ispica (D-v) – Mistretta (D-v) – Modica (H-o) – Monreale (D-v) – M. Cammarata (A-o) – M. Lauro (F-o) – M. Pellegrino (H-o) – M. Soro (E-o) – Nicosia (H-v) – Noto (B-o) – Novara di Sicilia (F-o) – Pantelleria (G-v) – Piraino (D-v) – Porto Empedocle (E-o) – Punta Raisi (D-v) – S. Maria del Bosco (D-v) – S. Stefano Quisquina (H-o) – Scicli (H-v) – Termini Imerese (E-v) – Tortorici (G-v) – Trapani (H-v).

D. Prgr.: W 12.30–15.05 ("Telescuola") – for schools, 16.00–17.00 (Childrens H.), 17.30–22.00 approx.). **N.:** 17.30, 19.30, 22.00. Sun: 09.15–11.00, 15.00–23.00.

Stations for the second programme with indication of the channels band IV/V. See page 207.

Torino	30	Mt.Conero	26	Mt. Pellegrino	27	Gambarie	26
Mt. Penice	23	Roma	28	Mt. Faito	23	Mt. Serpeddi	30
Mt. Venda	25	Pescara	30	Mt. Caccia	25	Mt. Scuro	28
Mt. Beigua	32	Milano	26	Trieste	31	Mt. Vergine	31
Mt. Serra	27	Portofino	29	Firenze	29	Mt. Favone	29

Link connections with foreign countries: Italy-France: Milano-Monte Bignone-Pic de l'Ours – Italy-Switzerland: Milano-Monte Generoso-Uetliberg – Italy-Yugoslavia: Trieste-Monte Nanos-Ljubjana – **Publ.:** Radiocorriere, weekly.

LUXEMBOURG

TELE LUXEMBOURG (Comm.)

FI.: By adv. – **Addr.:** See Sound Broadcasting – **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc – **Station:** Def. 819, ch E7 100/20 kW H – **D. Prgr.:** Sun, Thurs, Sat 16.00–21.30, Mo, Tues, Wed, Fri 18.00–21.30

MALTA

THE MALTA TELEVISION SERVICE LTD. (Comm.)

Addr.: Gwardamanga, Malta. G.C. **Cable:** Television "Malta". **Te.:** 25051 – **L.P.:** Dir.: E. A. Hamilton-Hill, O.B.E. Mgr.: F. R. Yardley, M. Brit., I.R.E., A.I.E.E. Dir. Tec.: W. A. Fenton, MIRE.
Station (System Marconi): ch E10 4.8/1.2 kW H, d.
D. Prgr.: 17.00–21.00.

MONACO

TÉLÉ MONTE-CARLO (Comm.) – FI.: By advertisements – Addr.: 16 Blvd. Princesse Charlotte, Monte Carlo. Cable: Tele Carlo. Te.: 305940 – L.P.: Dir. Gen.: M. Micheo. Dir. Tec.: R. Leguet.

Stations: ch F10 50/10 kW H – **Projected st.:** ch F2 H.
D. Prgr.: D 18.30–22.00 – Monoscope identification W 14.00–16.00.

POLAND

POLSKIE RADIO I TELEWIZJA (Go.)

FI.: By state – **Addr.:** Telewizja, Plac Powstanców Warzawy 7, Warszawa. **Cable:** Telewar. **Te.:** 6-52-71. (Foreign Rel. 630-93) – **L.P.:** Pres.: W. Sokorski, Vicepres. Engineering: K. Kozlowski. Dir. Prgr. S. Stefanski.: Chief Eng. J. Rutkowski. Prgr. Exchange: Mrs. K. Zebrowska.

Stations: Po.: H. ch OIRT. *=Satellite st.'s.

	ch	kW/W		ch	kW/W
Warszawa	2	7.5/3	Kielce*	1	6/2
Gdansk	3	4/1.25	Zakopane*	6	0.002/0.001
Katowice	8	225/75	Kraków*	10	0.008/0.002
Lódz	6	2.5/0.8	Bydgoszcz	6	50/10 W
Poznan	7	1.5/0.5	J. Gora*	10	0.02/0.01
Wroclaw	12	123/30	Klodzko*	8	0.02/0.01
Szecin	12	3/1	N. Sacz*	6	0.02/0.01
Olsztyn	6	2/1 W	Radom*	11	0.02/0.01

D. Prgr.: Mo–Fri 16.00–21.00. Sat 16.00–22.30. Sun. 08.00–21.30. **Tests:** 10.30–15.30. – **F.P.L.:** Lublin ch 9 120 kW, Rzeszów ch 12 100 kW, Zielona Gora ch 3 200 kW – **Link connections:** Warszawa–Gdansk–Kaliningrad/U.S.S.R. Warszawa–Lódz–Katowice–Wroclaw–Poznan–Szezecin. Wroclaw–Zvicina/Czechoslovakia. Wroclaw–Görlitz/DDR.

PORTUGAL

RTP-RADIOTELEVISÃO PORTUGUESA S.A.R.L. (Comm.)

Port. Go.: ⅓ of the shares – **FI.:** Licence payments and ad.s – **Addr.:** Head office: Rua de S. Domingos (à Lapa), 26 Lisbca. Studio in Lisboa: R. Particular, à Alameda das Linhas de Torres, 44. Porto: Santo Ovideo, Vila Nova de Gaia – **Cable:** Telvisao. **Te.:** 666134.
L.P.: Prs. of the Board of Dir.'s: Dr. Luiz de Athayde. Gen. Mgr.: Eng. Barradas da Silva. Central Manager: Eng. Francisco Conceição. Head, External Relations Division: Dr. António Bivar.
Stations: ch E: Lisbca (Monsanto) 7 100/20 kW H – Porto (Monte da Virgem) 9 100/20 kW H – Montejunto 6 1/0.2 kW H – Monchique (Foia) 5 6.5/1.3 kW H – Lousã 3 60/12 kW H and several rpt. st.'s in work and under installation.
D. Prgr.: W 19.30–24.00. Sun 12.30–13.00, 18.30–24.00.

RUMANIA

RADIODIFUZIUNEA TELEVIZUNEA ROMINA (Go.)

Addr.: Studioul de Televiziune, Str. Moliére 2, Bucuresti – **Stations:** Po.=H. Ch=OIRT – Main st.: Bucuresti ch II 20/10 kW. Relay st.'s: Bacau ch I 0.6/0.4 kW. Brasov ch III 0.1 kW. Pitesti ch IV 0.025 kW. Birlad ch VIII 0.01 kW. Craiova ch VIII 0.04 kW. Victoria ch VII 0.02 kW – **D. Prgr.:** Sun 06.50–10.00, 17.00–20.30. Mo, Tues, Thurs, Sat 17.00–20.00. Wed 15.00–17.00.

SPAIN

TELEVISION ESPAÑOLA (Go).

Addr.: Avenida de la Habana 77, Madrid – **L.P.:** Dir. Gen. Radio and TV: Ilmo Sr. D. Roque Pro Alonzo. Dir. Tec.: D. V. Fernández Asis – **Stations:** Madrid-Navacerrada ch E2 200/80 kW H – Madrid-Chamartin ch E3 2/1 kW H – Zaragoza (La Muela) ch E3 6/1 kW H – Bilbao ch E4 80/40 kW – Valencia (Mt. Garbi) ch E5 0.05/0.025 kW H – Barcelona ch E4 25/5 kW H – Tortosa (Mt. Caro) ch E10 50/25 kW H. **TV-link-chain:** Seven intermediate rel. st.'s interconnecting Madrid-Zaragoza-Barcelona. **Under construction:** Sevilla ch E3, Santiago ch E3 80/40 kW – **D. Prgr.:** From Madrid, Barcelona: 14.45–16.00, 20.00–24.00.

SWEDEN

SVERIGES RADIO

Swedish TV; run by Sveriges Radio; has the same non-commercial and official status as the broadcasting service – **FI.:** By license payments.
Addr.: Radiohuset, Oxenstiernsgatan 2, Stockholm. **Postal Addr.:** Box 955, Stockholm 1. **Cable:** Broadcast. **Te.:** 631040 – **L.P.:** See Sound Broadcasting.
KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the prgrs. produced by Sveriges Radio and has also charge of the collection of license fees.
Addr.: Stockholm 16. **Cable:** Gentel. **Te.:** Trunk calls: 236060, local calls: 236040 – **L.P.:** See Sound Broadcasting.
Stations: ch. E, H, kW (E.R.P.):

Name	ch	kW		ch	kW
Anderstorp u)	8	0.15 V	Hultsfred u)	9	0.15
Arvidsjaur	5	15	Hälsingborg	9	1
Boden	4	60	Härnösand	10	0.15
Bollnäs	6	15	Hörby	2	100
Borlänge	10	25	Jönköping	8	0.15
Borås	6	1.5	Karlskrona	9	3 V
Bäckefors	8	60	Karlstad	5	1 V
Emmaboda	8	15	Kiruna	6	60
Falun u)	5	0.01 V	Köpmanholmen u)	9	0.15 V
Grebbestad u)	6	0.15 V	Linköping	9	1
Gäddede u)	6	0.15	Loffstrand	4	0.15 V
Gällivare	9	60	Lycksele	8	1.5
Gävle	9	15	Malmö	10	1
Göteborg	9	60	Mora	8	3 V
Halmstad	7	15	Motala	7	3
Haparanda	8	60	Norrköping	5	60
Hudiksvall u)	10	0.15 V	Nässjö	10	60

	ch	kW		ch	kW
Pajala	7	15	Uddevalla	2	1 V
Skellefteå	6	1.5	Uppsala	6	3
Skövde	3	15	Varberg	10	1 V
Sollefteå	7	15	Visby	9	25
Sollefteå/Hallsta u)	10	0.01 V	Vännäs	2	60
Stockholm	4	60	Västervik	6	25
Storuman	10	15	Västerås	8	10
Strömstad	5	0.15	Växjö	5	5 V
Sundsvall	5	60	Ånge	8	1.5
Sunne	7	60	Åre u)	10	0.01 V
Sveg	3	60	Örebro	2	60
Sysslebäck u)	10	0.15	Örnsköldsvik	6	3 V
Tranås u)	8	0.15 V	Östersund	4	60
Trollhättan	7	1	Östhammar u)	10	0.15 V
Täsjö	9	15			

u)=stations beyond the Stockholm plan.

D. Prgr. (exc. extra sport-events): Sun: approx. 08.30–09.30, 17.00–21.00. Mo 09.00–09.25 and 12.00–12.25 (for schools), 13.00–14.00, 17.00–17.20, 18.30–approx. 21.00. Tues 09.00–09.25, 12.00–12.25 (for schools), 15.30–15.50, 17.00–17.30, 18.30–approx. 21.00. Wed 08.00–08.20, for schools 09.00–09.25 and 12.00–12.25 and 17.00–18.00, 18.30–approx. 21.00. Thurs 13.00–14.00, 17.00–17.30, 18.30–approx. 21.00. Fri 08.30–08.55 and 09.00–09.25 and 12.00–12.25 for schools, 15.30–15.50, 18.00–approx. 21.00. Sat 17.30–approx. 21.30.

SWITZERLAND

SWISS TELEVISION (Go.)

FI.: By the proceeds from the TV license-fees, divided between the SBC and PTT at the rate of 70:30 per cent – **AD.:** Not allowed – **Addr.:** Swiss Television, 26 Kreuzstrasse, Zürich. **Cable:** Telesuisse. **Te.:** Zürich (051) 34.80.30, Geneva (022) 24.72.50, Lugano-Besso (091) 32021 – **L.P.:** Dir. Swiss TV: Edouard Haas. Head German Prgr.: Dr. Guido Frei. Head French Prgr. and Deputy Dir.: René Schenker. Head Italian Prgr.: Franco Marazzi. Head Tec.: H. R. Züst. Head Adm.: Rolf Wydler. Head Prgr. Coordination: Frank R. Tappolet.

Station: Ch E. **Po.:** H.

German Prgr.: Bantiger (Berne) ch 2 30/6 kW – Uetliberg (Zürich) ch 3 60/12 kW – Säntis ch 7 15/3 kW – St. Chrischona (Bale) ch 10 10/2 kW – Niederhorn ch 12 5/1 kW Experimental – Valzeina ch 10 5/1 kW – **PTT boosters:** Rigi (Lucerne) ch 6 100/20 Watts – St. Gallen ch 10 10/2 Watts – **Private boosters:** Feldis (Grisons) ch 6 40/8 Watts – Trans (Grisons) ch 8 50/10 Watts – Ruschein (Grisons) ch 9 110/22 Watts – Luven (Grisons) ch 7 15/3 Watts.

French Prgr.: La Dôle ch 4 144/28.8 kW – La Chaux-de-Fonds (Jura) ch 9 4.5/0.9 kW – **PTT boosters:** Mt.-Pèlerin (Léman) ch 11 180/36 Watts – Ravoire (Valais) ch 9 1800/360 Watts – Bantiger/Berne ch 10 2/0.4 kW – Val de Travers ch 5 50/10 W – Moron ch 11 90/18 W – **Private boosters:** Veysonnaz (Sion) ch 6 400/80 Watts.

Italian Prgr.: Mt. Ceneri ch 5 4.5/0.9 kW – Mt. San Salvatore ch 10 10/2 kW – **PTT booster:** Mt. Morello ch 6 30/6 Watts – **Private boosters:** Arbedo ch 9 5/1 W – Biasca ch 7 50/10 kW – Iragna ch 11 1/0.2 W.

D. Prgr.: In German: Sun: Morning: Outside broadcast religious sce., twice a month, 15.30–17.30, 18.30–21.15. W (Tues no transmissions): 19.00–21.30. Wed, Sat 16.00–17.00. Thurs 16.30–17.30 – **In French:** Sun: Morning: outside broadcast religious service, twice a month, 15.30–17.00, 18.15–21.15. Mo, Thurs, Fri, Sat 19.00–21.30. Wed 18.30–21.30. Wed and Sat 16.00–17.00. Thurs 16.30–17.30. (Tues no transmissions) – **In Italian:** Sun: Morning: Outside broadcast, service of the Mass, once a month. 15.30–17.00, 19.00–21.15. Mo–Sat (Tues no transmissions): 19.00–21.30 – **Fixed prgr's:** Thurs: TVplay in German. Fri: TVplay in French. D: Telejournal in German, French, Italian.

Relay facilities: A microwave link across the Alps. It runs from Gempen, near Bâle (northern border) to Froburg-Bantiger-Jungfrau (12.200 ft.) – Mt. Generoso (southern part of Switzerland) on the one side, and the German and Italian TV systems on the other side. – A second microwave link runs from Uetliberg–Froburg–Bantiger–Romont–La Dôle. It has been extended to Cuiseaux for the programme exchange with France. – Third link: Uetliberg–Säntis–Pfänder (Austria).

Projected Stations: Les Ordons ch 7 (French progr.) + Cardada ch 12 (Ital. progr.) – Bantiger: Second tr. for French prgr. 1963 – Rigi (C. Switzerland) 1963.

USSR

STATIONS: ch R—. **Def.:** 625. **Polarisation:** Horizontal.

THE SOVJET TELEVISION (Go.)

Addr.'s of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 (Dir. I. Inozemtsev) – Leningradskaja studija televidenija Leningrad, ul. Malaja Sadovaja 2 – Kijevskaja studija televidenija Kijev, Krestjatik 24 – Minskaja studija televidenija Minsk, ul. Kalinina 6 – Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 – Tallinskaja studija televidenija Tallinn, ul. Krejtsvalda 14 – Bakinskaja studija televidenija Baku, Parkovaja ul. 1 – Tasjkentskaja studija televidenija Tasjkent, ul. Navoi 69 – Jerevanskaja studija televidenija Jerevan, pr. Ordzjonokidze 22 – Tbilisskaja studija televidenija Tbilisi, pr. Rustaveli 12 – Vilnjusskaja studija televidenija Vilnius, studija televidenija – Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija – Kisjinjovskaja studija televidenija Kisjinjov, studija televidenija.

L.P.: Moscow TV Centre: Dir.: B. P. Stepanov. Vice-Dir.: M. A. Zhdanov.

Stations: Television Centres:

Moscow ch 1 15/4 kW – Moscow ch 3 7.5/3 kW – Moscow ch 8 (colour).

D. Prgr.: ch 1: W 09.00–10.00, 14.30–20.00 (approx.). Sun 09.00–20.00 – **ch 3:** D 15.40–20.00 (approx.) – **ch 8:** Thurs 12.30–13.00.

RSFSR: Armavir ch 1 – Barnaul ch 3 – Biysk ch 1 – Bryansk ch 2 – Vorkuta ch 3 – Voronezh ch 1 – Vladivostok ch 1 – Gorkiy ch 2 – Zzhevsk ch 2 – Irkutsk ch 3 – Kazan ch 1 – Kaliningrad ch 4 – Kemerovo ch 5 – Kirov ch 3 – Krasnodar ch 5 – Krasnajarsk ch 2 – Kuybyshev ch 3 – Leningrad ch 1 15/4 kW – Murmansk ch 3 – Nalchik ch 1 5/2 kW – Novosibirsk ch 2 – Norilsk ch 1 – Omsk ch 1 5/2 kW – Penza ch 4 – Perm ch 1 – Petrozavodsk ch 2 5/2.5 kW – Pyatigorsk ch 2 – Rostov ch 1 – Rubtsovsk ch 2 – Saratov ch 1 – Sverdlovsk ch 3 5/2 kW – Sochi ch 1 – Volgograd ch 4 – Stalinogorsk ch 5 – Tomsk ch 1 5/2 kW – Tyumen ch 2 – Ulyanovsk ch 5 – Ufa ch 1 5/2.5 kW – Cherepovets ch 5 – Chelyabinsk ch 4 – Yaroslavl ch 2. – **Ukrainian SSR:** Dnepropetrovsk ch 5 5/2 kW – Zaporozhye ch 6 – Kiev ch 2 15/4 kW – Lugansk ch 2 – Lvov ch 1 – Nikolayev ch 2 – Odessa ch 5 15/4 kW – Stalino ch 4 15/4 kW – Simferopol ch 3 – Kharkov ch 3 7/3.5 kW – Kherson ch 3 2/1 kW. – **White Russian SSR:** Gomel ch 3 – Minsk ch 1 5/2 kW. – **Kazakh SSR:** Alma Ata ch 3 5/2.5 kW. **D. Prgr.:** D 12.30–16.30. Sun also 05.00–06.30 – Karaganda ch 1 – Ust Kamenogorsk ch 1. – **Azerbajan SSR:** Baku ch 3 5/2 kW. **D. Prgr.:** 14.05–18.30. – **Lithuanian SSR:** Vilnius ch 4 15/4 kW. – **Armenian SSR:** Yerevan ch 1 5/2 kW V. – **Moldavian SSR:** Kichinev ch 3 15/4 kW. – **Latvian SSR:** Riga ch 3 5/2 kW. – **Estonian SSR:** Tallinn ch 2 15/4 kW. – **Uzbek SSR:** Tashkent ch 3 5/2.5 kW. – **Georgian SSR:** Tbilisi ch 4 5/2 kW. – **Kirghiz SSR:** Frunze ch 1.

Projected Stations; TelevisionCentres;

RSFSR: Abakan ch 1 – Astrakhan ch 1 – Berezniki – Grozny – Ulan Ude – Yoshkar Ola – Komsomolsk ch 1 – Magnitogorsk ch 3 – Makhachkala – Petropavlovsk Kamchatka – Khabarovsk – Kursk – Saransk – Magadan ch 1 – Yuzhno Sakhalinsk – Arkhangelsk – Ordzhonikidse – Cheboksary – Yakutsk – Orenburg – Syktyvkar – Stavropol – Chita. – **Ukrainian SSR:** Vinnitsa – Stanislav. – **White Russian SSR:** Vitebsk. – **Kazakh SSR:** Petropavlovsk – Aktyubinsk ch 1 – Dzhez – Kazgan ch 1 – Balhash. – **Uzbek SSR:** Nukus. – **Tadzijk SSR:** Stalinabad ch 1. – **Turkmen SSR:** Ashkhabad ch 1 – Nebit Dag – Krasnovodsk. – **Azerbajan SSR:** Nakhichevan – Kirovobad.

YUGOSLAVIA

TELEVISION YOUGOSLAVE (Go.)

FI.: By license payments – **AD.:** 30 mins. per week.

Addr's: Radiotelevision Yougoslave: 70B., Kidriča, Beograd. **Te.:** 43-677 **Telex:** 01-259. **Radiotelevision Beograd:** 2, Hilendarska, Beograd. **Te.:** 24-214. **Telex:** 01-288. **Radiotelevision Zagreb:** 4, Jurišlićeva, Zagreb. **Te.:** 37-741. **Telex:** 02-126. **Radiotelevision Ljubljana:** 17, Tavčarjeva, Ljubljana. **Te.:** 33-111. **Telex:** 03-102 – **L.P.: Radiotelevision Yougoslave:** Pres. Adm. Com.: D. Seliger. Secr. Gen.: Dr. I. Pustišek. Head For. Rel.: Mrs. O. Vojvodić. Pres. Prgr. Com. TV: D. Štrbac. Secr. Prgr. Com. TV: M. Vilček. Pres. Tech. Com.: Eng. S. Rojec. **Radiotelevision Beograd:** Dir. Gen.: Z. Vuković. Dir. Prgr. TV: V. Mitrović. Dir. Tech.: Eng. R. Žižić. **Radiotelevision Zagreb:** Dir. Gen.: I. Šibl. Dir. Prgr. TV: D. Štrbac. Dir. Tec.: V. Trs. **Radiotelevision Ljubljana:** Dir. Gen.: D. Seliger. Dir. Prgr. TV: L. Pohar. Dir. Tec.: Eng. Z. Pipan.

Stations in operation (625 lines, FM, Po. H)

BEOGRAD	ch	kW		ch	kW
Avala	6	12/2.5	Tržič	6	0.15/0.03 W
Crveni Čot	10	30/6	Kovor	9	5/1 W
Jastrebac	5	100/20 W	Jesenice	8	5/1 W
Crni Vrh	11	35/7 W	Mozirje	10	8/1.6 W
Ovčar	8	500/100 W	Skalnica	11	35/7 W
ZAGREB			Celje	6	35/7 W
Sljeme	9	10/2.5	Pohorje	8	35/7 W
Psunj	5	40/10 W	TITOGRAD		
St. Grič	7	40/10 W	Lovćen	10	50/10 W
Srdj	7	40/10 W	Nikšić	8	10/2 W
Kozjak	6	40/10 W	Kotor	8	0.5/0.1 W
SKOPJE			Budva	8	0.5/0.1 W
Solunska Glava	6	140/75 W	SARAJEVO		
Pelister	10	60/30 W	Sarajevo	8	5/1 W
Vodno	9	30/15 W	Bjelasnica	6	5/1 W
LJUBLJANA			Majevica	5	5/1 W
Krvavec	5	6/1.2	Tuzla	7	5/1 W
Kum	11	6/1.2	Banoviči	8	0.5/0.1 W
Nanos	6	1.6/0.4	Kozara	6	5/1 W
Velenje	8	5/1 W	Zenica	6	5/1 W

Vareš	10	0.5/0.1 W	**Projected stations in 1963**		
Zvornik	7	1/0.2 W	Piran	11	5 W H
Zavidovići	7	0.5/0.1 W	Zagorje	8	0.125 W H
Ljubija	10	0.5/0.1 W			

D. Prgr.: Common prgr. for Beograd, Zagreb, Ljubljana: Sun 09.00–10.00, 19.00–21.30 approx., Mo 18.00–21.30 approx., Tues No regular national prgr., Wed 17.00–18.00, 19.00–21.30 approx., Sat 17.00–18.15, 19.00–21.30 approx. In addition weekly 30 h of extraordinary prgr. (sport events, etc.) – **Test transmissions:** Beograd, Zagreb, Ljubljana – daily one hour before the beginning of transmission – **Publ.:** "Radio Televizija" weekly.

AFRICA

ALGERIA

RADIO ALGERIE (Go.) – **Addr. & L.P.:** See Sound Broadcasting. **Stations: Def.:** 819: Algiers ch F11 20/5 kW, H, d – Oran ch F8 50/12 W, H – ch F12 5/1.25 kW H – Tizi-Ouzou ch F7 0.1/0.025 kW (repeats ch F11 Algiers) – Chrea ch F6 (satellite) 5/1.25 kW H – Constantine ch F7 0.2/0.05 kW, H.

EGYPT

U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)

Fl.: By license payments and adv – **Addr.:** Radio & TV House, Maspero Str., Cairo. **Cable:** Kahivision. **Te.:** 812070.

Stations: Ch E; Sound FM; Vision AM

	ch	kw		ch	kw
Cairo 1	5	100/20 H	Ismailia	6	3.5/0.7 H
Cairo 2	7	20/4 H	Suez	9	3.5/0.7 H
Cairo 3	9	20/4 H	Bush	9	3.5/0.7 H
Alexandria 1	6	24/5 H	Maghagha	5	3.5/0.7 V
Mansoura	8	16/3.2 H	El-Minya	7	3.5/0.7 H
Assuan	5	12/2.4 H	Mallawi	9	3.5/0.7 H
Kassasin	9	3.5/0.7 H	Qusiya	6	3.5/0.7 H

D. Prgr's: Cairo 1, Alexandria 1, Mansoura, Kassasin, Ismailia, Suez, Bush, Maghagha, El-Minya, Mallawi, Qusiya: D 06.00–08.00, 14.00–22.00. Fri 10.00–22.00 – Cairo 2: D 15.00–21.00 – Cairo 3: D 16.00–19.00 – Assuan: D 17.00–20.00.

Projected St's: Tanta ch 11 135/27 kW H – Port Said ch 10 25/5 kW H – Alexandria 2 ch 9 6/1.2 kW H – Damietta ch 9 10/2 kW H – Assiut ch 8 6/1.2 kW H.

GHANA

GHANA BROADCASTING CORPORATION (Go.)

A Television Sce. with 3 st.'s of 20 kW (ERP) each is expected to be in operation in 1964 (CCIR 625 standards).

IVORY COAST

A Television Sce. is planned with tr's at Abidjan, Bonafle, Koun, Man.

KENYA

KENYA BROADC. SCE.: Commercial adv. (6 mins. per h.). Go. grant-in-aid. License – Service started in October 1962 – Independent Corporation – **Addr.:** Box 30456, Nairobi. **Te.:** 26977 – **L.P.:** Dir. Gen.: C. P. Jubb. Dir. TV prgr.'s: N. H. Type. Dir. Tec.: G. Phillips – **Stations:** ch E4 15 kW H. System Marconi – **D. Prgr.:** D 15.00–19.30. English, Swahili. **Testtr.:** D 11.00–14.00 – **Publ.:** Radio Times of Kenya – **F.PL.:** St.'s in Kisunu and Mombasa.

MOROCCO

RADIODIFFUSION TELEVISION MAROCAINE (Go.) – **Addr. & L.P.:** See Sound Broadcasting – **Stations:** Casablanca 211.25/216.75 Mc 7/1.4 kW H – Rabat 187.25/192.75 Mc 1/0.2 kW H.

NIGERIA

NATIONAL TELEVISION (N.T.S.): Addr.: Ikoyi, Lagos – **Station:** ch 10 – **D. Prgr.:** 17.00–20.00.

EASTERN NIGERIA TELEVISION (ENTV): Addr.: See Sound Broadc. – **Station:** Enugu ch E2 100 Watt H – **D. Prgr.:** W 17.30–21.30(Sat 22.30) – **Projected St.:** 50 kW. Relay link between Enugu – Orritsha – Aba.

WESTERN NIGERIA RADIOVISION SERVICE (Comm. with d. two h. education prgr.s)

Fl., AD., and L.P.: See Sound Broadcasting – **Stations:** Abafon (Lagos) ch E3 15/4 kW H – Ibadan ch E4 1.5/0.4 kW H – **D. Prgr.:** D 17.00–20.30.

NORTHERN NIGERIA TELEVISION (NNTV): Addr.: Kaduna TV, Box 250, Kaduna, No. Nigeria. **Cable:** Radionorth – **L.P.:** Mgr. Dir.: Leslie A. W. Diamond A.I.L. Dir. Tec.: R. Sharpe ACGI, MIEE, B. Sc. – **Station:** JAJI ch E4 40 kW H (System Brown Boveri) – **D. Prgr.:** D 20.00–23.00 (exc. Sat).

RHODESIA AND NYASALAND

FEDERAL BROADCASTING CORP. OF RHODESIA AND NYASALAND (Go., Comm.)

The controlling authority for TV in the Federation is the Federal Broadcasting Corp., who owns and operates the TV transmitters. **Rhodesia Tele-Vision Ltd.** is the prgr. contractor to the FBC and is charged with day-to-day running of the TV prgr.service.

Addr.: P.O. Box 2696, Salisbury. **Cable:** Broadcasts. **Te.:** 25685. **L.P.:** Dir. Gen.: J. McClurg. Chief Eng.: J. M. Reeves, M.I.E.E., M.I.R.E. – **Stations:** C.C.I.R. System: **Salisbury** ch E4 20/4 kW. **Bulawayo** ch E3 3/0.6 kW H. **Kitwe** ch E4 (Systems Philips, RCA) – **D. Prgr.:** D approx. 15.25–20.15. Sat 15.55–21.00. Sun 14.55–21.15. **Prgr. Contractor: Rhodesia Tele-Vision Ltd. (Comm.).** Operates via income from adv.'s and pays F.B.C. a fee for use of tr. Spot adv.'s totalling 10% of total transmitting times – **Addr.:** R.T.V., P.O. Box HG 200, Salisbury, R.T.V. P.O. Box 777, Bulawayo, R.T.V. P.O. Box 1100, Kitwe – **L.P.:** Gen. Mgr.: H. W. Jackson. Chief Eng.: M. N. Smuts.

SIERRA LEONE

SIERRA LEONE TELEVISION SERVICE (Comm.)

Addr.: Freetown – **Station:** Aberdeen Hill ch E2 0.4 kW H – To begin operation on Dec. 24th 1962.

ASIA

CAMBODIA

RADIO CAMBODGE-TELEVISION: Phnom-Penh 174.25/179 Mc 5/2.5 kW. Experimental.

THE PEOPLES REPUBLIC OF CHINA

Addr. and L.P.: See Sound Broadcasting. [1]=Rel. Peking. [2]=Rel. Shanghai.

Stations:	Vision	Sound		Vision	Sound		Vision	Sound
Peking	Mc	Mc		Mc	Mc		Mc	Mc
1st Prgr.	57.75	64.25	Wusih[2]	57.75	64.25	Hekang	85.25	91.75
2nd Prgr.	77.25	83.75	Soochow[2]	57.75	64.25	Sian	49.75	56.25
Shanghai	93.25	99.75	Hangch.[2]	57.75	64.25	Hofei	85.25	91.75
Tientsin	77.25	83.75	**Exp. St's:**			Nanking	49.75	56.25
Harbin	49.75	56.25	Taiyuan	49.75	56.25	Wuhan	93.25	99.75
Shenyang	93.25	99.75	Fushun	49.75	56.25	Changsha	57.75	64.25
Changch.	57.75	64.25	Anshan	57.75	64.25	Chengtu	57.75	64.25
Canton	57.75	64.25	Kirin	49.75	56.25	Kweiyang	93.25	99.75
Relay St's:			Chiamus.	49.75	56.25			
Tangshan[1]	85.25	91.75	Tsitsihar	49.75	56.25			

CYPRUS

CYPRUS BROADCASTING CORPORATION (Private)

Fl.: Go. subsidised and adv. income – **Addr.:** P.O. Box 824, Nicosia. **Cable:** Broadcasts. **Te.:** 5231 – **L.P.:** Dir. Gen.: V. I. Markides. Dir. TV prgr.: G. Mitsides. Dir. Tec.: P. T. Astreos – **Station:** Nicosia ch E2 1.5/0.3 kW H – **D. Prgr.:** D exc. Mo, Thurs: 17.00–20.00. Test-transmissions: D exc. Mo, Thurs: 08.00–10.00 – **F.PL.:** Plans for covering the whole island have been completed and work will start very soon. The whole project should be completed by end of 1963.

HONG KONG

REDIFFUSION (Hong Kong) Ltd. (Comm.)

Addr.: See Sound Broadcasting. – **L.P.:** Prgr. Mgr.: M. Miller. Comm. Mgr.: J. Sloan. Wired television network covering Hong Kong and Kowloon area.

INDIA

ALL INDIA TELEVISION (Go.)

Addr.: Television Centre, All India Radio, Akashwani Bhawan, 5th Floor, Parliament Street, New Delhi 1. **Te.:** 30101 – **L.P.:** Dir. TV Centre: R. Chander. Engineer-in-charge: P. R. Desikachar – **Station:** New Delhi ch E4 10 kW (System Philips) – **D. Prgr.: April–September:** Social Education Prgr.: Fri 13.30–14.40. **July–Septbr.:** For Schools: Mo–Fri incl. 03.35–03.55, 04.30–04.50, 09.00–09.20, 10.00–10.20. **October–March:** Social Education Prgr.: Fri 13.30–14.40. For Schools: Mo to Fri incl. 04.05–04.25, 05.00–05.20, 09.35–09.55, 10.30–10.50 – **Projected St.'s:** Bombay – **Publ.:** Tele-Club Patrika (Hindi) fortnightly. School TV pamphlet (English) annual – **F.PL.:** The sce. at Delhi is confined to 1) Social Education Progr. for Community Viewing at Tele-clubs and 2) School TV lessons for Higher Secondary classes. The future plans envisage an increase in the number of Tele-clubs. By the middle of 1963 it is hoped to form 250 Tele-clubs. The number at present is 105 (August 1962).

IRAN

TELEVISION OF IRAN (Comm.)

Addr.: Box 1015, Av. Pahlavi, Tehran. **Cable:** Televiran – **L.P.:** Dir. Gen.: H. Sabet. Dir. Tec.: Eng. H. Victory – **Stations:** Teheran ch A3 4/0.8 kW H – Abadan ch A3 12/2.4 kW – **D. Prgr.:** Tehran and Abadan: 14.30–20.30.

IRAQ

TV-STATION OF THE REP. OF IRAQ (Go.)

Addr.: Ministry of Guidance, Broadcasting House, Salhiya, Baghdad – **L.P.:** See Sound Broadcasting – **Station:** Salhiya ch E8 3/8 kW H (System Pye) – **D. Prgr.:** 16.00–19.00, Fri also 07.00–09.00 – **F.PL.:** TV st's in Baghdad, Mosul, Basrah, Kirkuk, Samara and Amara.

JAPAN

NIPPON HOSO KYOKAI (Public Corporation, non-comm.)

Special Juridical Person provided in Broadcast Law.

ADDR.: 2-2 Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** Radionhk, Tokyo. **Te.:** (501)4111 – **L.P.:** Se Sound Broadcasting.

MONOCHROME-TV:

Stations: NHK operates two TV Networks, General and Educational, each transmitting national and regional broadcasts. As of October 1, 1962, there are a total of 149 st's, 98 for the General TV network and 51 for the Educational. By 1967, there will be 128 stations for the General TV and 94 for the Educational TV.

Call: JO--TV. **Po.:** H Exc. Kainan st. which uses V – **Ch:** J. – **Def.:** 525 – **Color-TV:** System NTSC. [1]) General Sce. [2]) Educ. Sce.

Call	ch	kw/W
°) Sapporo		
[1]) IK	3	10
[2]) IB	1	10
Otaru		
[1]) –	11	75W
[2]) –	2	75W
Ashibetsu		
[1]) –	4	65W
[2]) –	2	65W
Hakodate		
[1]) VK	4	1
[2]) VB	10	1
Asahikawa		
[1]) CG	9	1
[2]) CC	2	1
Nayoro		
[1]) –	4	25W
Obihiro		
[1]) OG	4	1
[2]) –	12	1
Kushiro		
[1]) PG	9	1
[2]) PC	2	1
Nakashibetsu		
[1]) –	4	25W
[2]) –	12	25W
Kitami		
[1]) KP	3	1
[1]) –	9	75W
Monbetsu		
[1]) –	9	0.1
Muroran		
[1]) IU	9	1
[2]) IT	2	1
°) Sendai		
[1]) HK	3	10
[2]) HB	5	10
Naruko		
[1]) –	4	2W
[2]) –	2	2W
Akita		
[1]) UK	9	5
Odate		
[1]) –	4	0.1
Yuzawa		
[1]) –	3	90W
Yamagata		
[1]) JG	8	3
Nagai		
[1]) –	3	0.1
Tsuruoka		
[1]) JP	3	1
Morioka		
[1]) QG	4	3
[2]) QC	8	3
Kamaishi		
[1]) –	2	0.25
[2]) –	12	0.25
Miyako		
[1]) –	4	75W
[2]) –	8	75W
Ohunato		
[1]) –	9	10W
[2]) –	5	10W
Kitafukuoka		
[1]) –	5	0.25
[2]) –	12	0.25
Fukushima		
[1]) FP	9	3
[2]) FD	2	3
Wakamatsu		
[1]) HT	1	1
Taira		
[1]) –	4	40W
[2]) –	10	40W
Aomori		
[1]) TG	3	5
[2]) TC	5	5
Hachinohe		
[1]) –	9	0.5
*) Tokyo		
[1]) AK	1	50
[2]) AB	3	50
Nagano		
[1]) NK	9	1
[1]) –	5	75W
Matsumoto		
[1]) –	3	3W
Ida		
[1]) –	4	0.25
Okaya Suwa		
[1]) –	4	75W
Nigata		
[1]) QK	8	5
Takada		
[1]) –	3	75W
Kofu		
[1]) KG	1	3
Fujiyoshida		
[1]) –	9	0.25
°) Nagoya		
[1]) CK	3	10
[2]) CB	9	10
Takayama		
[1]) –	4	30W
[2]) –	2	30W
Nakatsugawa		
[1]) –	4	100W
[2]) –	12	100W
Kanazawa		
[1]) JK	4	3
[2]) JB	8	3
Nanao		
[1]) –	9	100W
[2]) –	5	100W
Wajima		
[1]) –	3	30W
[2]) –	12	30W
Shizuoka		
[1]) PK	9	1
[2]) PB	2	1
[1]) –	4	14W
[2]) –	8	14W
Yoshiwara		
Shimada		
[1]) –	1	100W
Hamamatsu		
[1]) DG	4	1
[2]) DC	8	1
Fukui		
[1]) FG	9	3
Ouo		
[1]) –	5	35W
Toyama		
[1]) IG	3	3
[2]) IC	10	3
°) Osaka		
[1]) BK	2	10
[2]) BB	12	10
Kainan		
[1]) –	2	1W
Fukuchiyama		
[1]) –	3	30W
Maizuru		
[1]) –	1	50W
°) Hiroshima		
[1]) FK	3	10
[2]) FB	7	10
Miyoshi		
[1]) –	6	75W
[2]) –	1	75W
Kure		
[1]) –	11	10W
[2]) –	1	10W
Ouomuchi		
[1]) DP	1	1
Osaki		
[1]) –	3	3W
Okayama		
[1]) KK	5	10
Tsuyama		
[1]) –	2	75W
Matsue		
[1]) TK	6	1
Hamada		
[1]) –	2	0.5
Tottori		
[1]) LG	3	1
Chizu		
[1]) –	6	50W
Yamaguchi		
[1]) UG	9	1
Hagi		
[1]) –	3	100W
Swakuni		
[1]) –	9	10W
°) Matsuyama		
[1]) ZK	6	5
[2]) ZB	2	5
Uwajima		
[1]) –	6	75W
Nihama		
[1]) ZQ	2	0.25
Yawatahama		
[1]) –	8	0.25
Kochi		
[1]) RK	4	1
[2]) RB	6	1
Nakamura		
[1]) –	1	0.25
[2]) –	11	250W
Suzaki		
[1]) –	2	20W
[2]) –	12	20W
Tokushima		
[1]) XK	3	1
Ikeda		
[1]) –	6	2W
°) Kumamoto		
[1]) GK	9	1
Hitoyoshi		
[1]) –	3	75W
[2]) –	1	75W
Fukuoka		
[1]) LK	3	10
Kokura		
[1]) SK	6	1
[2]) SB	12	1
Nagasaki		
[1]) AG	3	1
Saseleo		
[1]) AT	8	1
Hirato		
[1]) –	3	10W
Kagoshima		
[1]) HG	3	5
[2]) HC	5	5
[1]) –	4	75W
[2]) –	2	75W
Makurazaki		
[1]) –	4	100W
[2]) –	9	100W
Miyazaki		
[1]) MG	8	1
Nobeoka		
[1]) –	4	0.25
Oita		
[1]) IP	3	3
Saeki		
[1]) –	7	30W
Kumamoto**		
–	2	1
Otsu***		
–	1	5W
Hitachi***		
ch 705.25 Mc		
60 W		
Otsu***		
ch 705.25 Mc		
18 W		
°) Reg. Central St. *) Head quarter.**) development test st. ***) exp. st.		

D. Prgr.: General: 21.28–14.50.

Educational: Mo-Fri: 00.00–02.55, 04.00–05.00, 06.30–07.30, 09.10–14.45. Sat: 00.00–02.55, 04.00–05.00, 08.55–14.45. Sun: 00.00–04.30, 08.55–14.45.

Daily average broadcasting hours of General TV service total 18 h, which is broken down into 23.6% of the total time for news events 8.1% for educational prgr's and 41.7% for cultural prgr's, 24.4% for entertainment and 2.8% for sports.

Daily average broadcasting hours for Educational TV total 10 h 30 min., which is broken down into 1.6% of the total time for news events, 77.4% for educational prgr's and 21% for cultural prgr's In the field of Educational TV Sce., school broadcast is delivered Mo to Fri 00.00–02.55, 04.00–05.00, 06.30–07.00, Sat 00.00–02.55.

COLOR TV: Color TV broadcasts are transmitted under the NTSC system in the Tokyo and Osaka areas since September 1960 – The daily average broadcasting duration is one hour and 22 minutes (General TV 1 hour and 1 minute and Educational TV 21 minutes).

F.PL.: The second 6-year plan, which started in 1962, aims to increase the number of General TV network stations to 461 and that of Educational TV network to 460. It also aims to increase the broadcasting hour of the Educational TV to the same daily average of 18 hours with that of the General TV.

PRIVATE STATIONS

Call: JO—TV ch J. *=Color TV. 525 lines.

D. Prgr.: General approx.: W 23.00/24.00 or from 02.00–05.00, 08.00–15.00. Sun approx. 23.00 or 00.00–15.00.

	HR	1 80/20	Hokkaido Broadc. Corp., Sapporo
	FX	1 10	Tokai Television Broadc. Co., Nagoya
	IR	1 10	Tohoku Broadc. Co., Sendai
	LR	1 3	Kita-Nihon Broadc. Co., Toyama
	IF	1 10	Kyushu Asahi Broadc. Co., Fukuoka
	CF	1 5	R. Minami-Nihon Broadc. Co., Kagoshima
	GR	1 5	R. Aomoro Broadc. Co., Aomori
	FR	4 10	RKB Mainichi Broadc. Co., Fukuoka 21.30–14.30
	OR	4 10	MBS Mainichi Broadc. System, Osaka
[1])	AX*	4 50	Nippon TV-Network Co., Niban-cho, Chiyoda-Ku, Tokyo
	ER	4 10	R. Chugoku Co., Hiroshima, 22.40–07.00, 08.30–14.30
	AR	5 10	Chubu-Nippon Broadc. Co., Nagoya 20.50–16.30
	DR	5 5	Broadcasting System of Niigata, Niigata
	KX	5 10	Sapporo TV Broadc. Co., Sapporo
	JF	5 3	Yamanashi Broadc. System Inc., Yamanashi
	GF	5 3	R. Oita Broadc. Co., Oita
	DF	6 3	Iwate Broadc. Co., Morioka
[2])	KR*	6 50	Tokyo Broadc. System, 21.15–16.50
[3])	NR*	6 10	Asahi Broadc. Corp. W 21.15–16.15, Sun 21.45–14.30
	MR	6 3	Hokuriku Broadc. Co., Kanazawa
	DX	8 10	Kansai Telecasting Co., Osaka
[4])	CX	8 50	Fuji Telecasting Co., D 21.00–13.00
	KF	9 10	Nishi-Nippon Broadc. Co., Takamatsu
	AF	10 5	Nankai Broadc. Co., Matsuyama
	EF	10 3	Yamagata Broadc. Co., Yamagata
	IX*	10 10	Yomiuri TV Broadc. Corp., Osaka
	EX	10 50	Nippon Educational TV Co., Minato-Ku, Tokyo
	YR	11 10	Sanyo Broadc. Co., Okayama
	TR	11 5	Akita Broadc. System, Akita
	PR	11 3	Fukui Broadc. Co., Fukui
	SR	11 1	Shinetsu Broadc. Co., Nagano
	NF	10 1	Miyazaki Broadc. Co., Miyazaki
	PF	11 1	Yamaguchi Broadc. Co., Tokuyama
[5])	VR	11 10 H	Shizuoka Broadc. System, 02.10–07.00, 08.30–14.20
	JR	1 1	Shikoku Broadc. Corp., Tokushima
	BF	11 1	Kumamoto Broadc. Corp., Kumamoto
	HX	10 1	Television Nishi-Nippon Corp., Yawata
	HF	10 1	San-In Broadc. System, Yonago
	KSAR	12 5	Ryukyus Broadc. Corp., Naha, Okinawa

[1]) Color TV 20 h weekly – [2]) 36 Hitotsugicho, Akasaka, Minato-Ku, Tokyo. **Cable:** Jokrtokyo. **Te.:** 481-8711. **L.P.:** Chairman T. Adachi. Pres. K. Shikakura. Color TV 14 h weekly – [3]) Asahi Broadcasting Corpo TV Station, Dojima, Kitaku, Osaka. **Cable:** Jonrtv. **Te.:** 361-1191. **L.P.:** See Sound Broadcasting. Color TV – [4]) Chiyoda-Ku, Tokyo. **Cable:** Frijivideo. **Te.:** 281–5251. **L.P.:** Dir. Gen.: N. Shikanai. Dir. Tec.: E. Nishiyama – [5]) 46 Koyamachi, Shizuoka City. **Te.:** (2)0111. **L.P.:** Dir. Gen.: Masumitsu, Oishi, Dir. Tec.: F. Yoshida. Ch A6 9.3 kW H Hamamatsu, ch A5 0.2 kW V. Shimada; ch A6 0.1 kW H Yoshuvara. System: Nippon Electric Co. Projected stations: UHF st.'s in Higashiizu, Shimoda, Mirakubo.

KOREA (Rep. of)

KOREAN CENTRAL BRODCASTING SYSTEM (Go.):

Addr.: Bureau of Broadcasting Management, Ministry of Public Information, Seoul. **Te.:** 32373 – **L.P.:** Dir. Jin Yong Kim. Chief Engineer: In Kwan Lee. TV Dir.: Ki O, Hwang. Dir. Tec. TV: N. S. Park – **Station:** Seoul Television Station HLCK ch A9 12 kW H. System RCA – **D. Prgr.:** 10.00–14.00.

AMERICAN FORCES KOREA NETWORK (US Go.-Funds). **Addr.:** APO 301, S. Francisco, Cal. **Te.:** Yougsan 2495 – **L.P.:** Dir. Gen.: Lt. Col. D. A. Bartoni Commander AFKN. Dir. Tec.: Capt. L. W. Parker. Dir. For. Rel.: *Information Officer 8th US Army, A PO* 301, S. Francisco – **Stations:** Seoul ch A3 500 W H. Pajuri ch A12 500 W H. Osan ch A12 150 W H. Nijongbu ch A12 50 W H. Tongduchon ch A3 50 W H. Camp Kaiser ch A12 100 W H. (System Gates) – **D. Prgr.:** Mo-Fri 08.00(Sat 01.30, Sun 00.00)–16.00.

KUWAIT

KUWAIT-TV ch A8 0.1 kW H – **Projected st.:** Mutlaa ch A8 70 kW. System RCA. Beginning of 1963.

LEBANON

COMPAGNIE LIBANAISE DE TELEVISION (Comm.) **FI.:** By adv. 25% of the transmission time – **Addr.:** B.P. 4848, Beirut – **L.P.:** Pres., Dir. Gen.: General S. Nofal. Dir. Tec.: N. Loutfi – **Station:** 5/1 kW, H: ch E7 Arabic. ch E9 French, English – **D. Prgr.:** ch 7: 17.00–19.00; ch 9: 18.00–20.30 – **F.PL.: Tripoli** (No. Lebanon) 0.2 kW: *ch E2 (Arabic), ch E4 (French & English)*; **Bekaa** (So. Lebanon) 50/100 kW: ch E4 (Arabic, French, English).

TELE ORIENT (Comm.) **Compagnie de Télévision du Liban et du Proche – Orient (SAL) – FI.:** By adv. – **Addr.:** Box 5054, Beirut. **Te.:** 280001. **Cable:** Telibor – **L.P.:** Dir. Gen.: R. Kerns. Mgr.: L. Dahdah. Dir. Tec.: H. Madani. Dir. For. Rel.: R. Boulos – **Station:** ch E11 100 kW H. Arabic, French, English (System: Marconi) – **D. Prgr.:** 15.00–22.00.

MALAYA (Federation of)

RADIO MALAYA: It is planned to introduce a Television Service in Kuala Lumpur before the end of 1963.

PHILIPPINES

ASSOCIATED BROADC. CORPORATION-ABC (Comm.) – **Addr.:** Malugay St., Bendia Sub, Makati, Rizal, Manila – **L.P.:** Dir. Gen.: A. C. Capotosto. Dir. Tec.: A. Paez. – **Station:** DZTM-TV ch A5 – **D. Prgr.:** Mo, Wed, Fri 09.25–13.30; Tues, Thurs 09.25–15.00; Sat 09.00–14.30; Sun 03.55–14.30.

BOLINAO ELECTRONICS CORP. (Comm.) – **Addr.:** ABS Bldg., Devey Blvd., Manila. **Te.:** 8-46-84. **Cable:** Bolinao – **L.P.:** Exec. Vice Pres.: E. Lopez – **Stations:** DYCB TV ch A3 2/1 kW – DZAQ TV ch A3 2/1 kW – Davao City ch A7 0.5 kW – **D. Prgr.:** DYCB-TV: 08.00–14.00, DZAQ-TV: 07.00–16.00.

CHRONICLE BROADCASTING NETWORK (Comm.) – **Addr.:** P.O. Box 1593, Manila. **Cable:** CBN. **Te.:** 300-61 – **L.P.:** Pres. & Gen. Mgr.: E. Lopez Jr. – **Station:** DZXL-TV ch A9 0.2/018 kW – **D. Prgr.:** 02.00–14.00.

INTER-ISLAND BROADCASTING CORPO. (Comm.) – **Addr.:** Trinity Bldg., San Luis St., Manila – **Stations:** DZTV ch 13 5/25 kW. DXTV (Davao City) ch A13 0.5 kW – **D. Prgr.:** 07.00–15.00.

METROPOLITAN BROADCASTING CO. (Comm.) – **Addr.:** 969 Taft Avenue, Manila – **Station:** DZRH-TV ch A11 5/2.5 kW – **D. Prgr.:** 09.30–14.00.

PHILIPPINE BROADC. SERVICE (Go. with limited comm. prgr.s) **Addr.** & **L.P.:** See Sound Broadcasting – **Station:** DZRP-TV ch A10 0.75/0875 kW – **D. Prgr.:** 10.00–12.00.

REPUBLIC BROADCASTING SYSTEM (Comm.) – **Addr.:** E de los Santos Ave., Diliman, Quezon City. **Te.:** 70-02-21. **Cable:** "Bobstew" – **L.P.:** Dir. Gen.: R. L. Stewart. Dir. Tec.: M. Samia – **Station:** DZBB-TV ch A7 5/2.5 kW – **D. Prgr.:** Mo-Fri: 07.30–15.00, Sat 00.00–14.00, Sun 00.00–15.30.

PROJECTED ST.'s.: Chronicle Broadc. Network: Bacolod City ch A2 0.5 kW. Baguio City ch A2 0.5 kW. Cebu City ch A3 2 kW. *Cagayan de Oro* ch A3 2 kW. *Davao City* ch A9 2 kW – ***Manila Times*** **Publications, Inc.:** Davao City ch A3 10 kW. Cebu City ch A13 10 kW – **Visayan Broadc. Network:** Cebu City ch A7 0.5 kW. Bacolod City ch A9 0.5 kW.

RYUKYU ISLANDS

OKINAWA TELEVISION BROADC. LTD. (Comm.) – **Addr.:** 1-chrome, Matsuyama-cho, Naha, Okinawa – **L.P.:** Pres.: T. Guschichan. Dir. Tec.: S. Sakagawa – **Station:** KSDW-TV ch A10 5/2 kW – **D. Prgr.:** 07.00–14.30 in Japanese.

SAUDI ARABIA

ARAMCO-TV (Non-comm. Private Comp.) – **FI.:** Arabian American Oil Co.

Addr.: ARAMCO, Box 1359, Dhahran – **L.P.:** Producer: J. V. Fullerton. Asst. Producer: Saleh Al-Mozaini. Chief Engineer TV: F. L. Morris – **Station:** Ch A2 6/3.15 kW (System RCA) – **D. Prgr.:** Sat/Sun/Mo/Tues/Fri: 3½ hrs., Wed Thurs: 4½ hrs. (Arabic TV sound only, English sound via Radio) – Times based on Sun time.

SYRIA

SYRIAN TELEVISION (Go.) – **Addr.** & **L.P.:** See Sound Broadcasting – **Stations:** Damascus ch E5 11 kW. Homs ch E7 2 kW. Sheikh Dahor ch E9 2 kW. Aleppo ch E5 2 kW. Tartous ch E11 2 kW – **D. Prgr.:** 16.00–22.00.

THAILAND

THAI TELEVISION CO. LTD. (Comm.) – **FI.:** By adv.

Addr.: Bangkhunprom, Bangkok. **Cable:** Thai TV – **L.P.:** Dir. Gen.: *General S. Jarusrenee.* **Mgr.:** *P. Hongsanan.* **Dir. Tec.:** A. Pochanabhisut. Dir. For. Rel.: Chamnong Rangsikul – **Station:** Ch A4 29 kW H (System RCA) – **D. Prgr.:** 12.00–15.00 – **Projected stations:** Ch 5. Tues, Thurs, Fri, Sat, Sun: 12.00–15.00. Ch A8: Mo, Wed, Fri, Sat: 12.15–15.30. Ch 9: Sun, Mo, Wed, Fri: 11.30–15.30.

THE ARMY TELEVISION STATION (Comm.) – **FI.:** By state and adv. – **Addr.:** Sanam Pao, Bangkok. **Te.:** 70428 – **Station:** A7 60/30 kW H – **D. Prgr.:** D 10.30–16.30.

TURKEY

ISTANBUL TEKNIK ÜNIVERSITESI (Go., exp.) **FI.:** *By the Technical University* – **Addr.:** *Elektrik Fakültesi*, Yüksek Frekans Teknigi Kürsüsü, Istanbul. **Te.:** 482250 – **L.P.:** Prof. Dr. A. Ataman – **Station:** Ch E4 50 Watts, H – **D. Prgr.:** Thurs. 12.00–15.00 only during the Academic Year.

AUSTRALIA

Standards: Def.: 625 – Frame frequency: 25 – Ch width: 7 Mc FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters – **Addr.:** Australian Broadcasting Commission, 264 Pitt Street, Box 487, G.P.O. Sydney. **Cable:** Abcom Sydney – **L.P.:** See Sound Broadcasting.

Stations: The A.B.C. controls six stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW), and Hobart (ABT). All transmitters operate on Australian ch 2 on 63-70 Mc, 100/20 kW exc. ABT, Hobart ch 3 Po : H, exc. Hobart V – **D. Prgr.:** Sun 04.30–12.45. Mo-Fri 04.00–13.00. Sat 03.30–13.00 – **Projected st's:** Main st.: ABRQ Rockhampton ch 3 H (Dec. 63). Relay st's: (All 100/20 kW) ABHN Newcastle ch 5 H (April 1963) – ABWN Wollongong ch 5A, H (Sept. 63) – ABCN Orange ch 1, V (Oct. 63) – ABCV Bendigo ch 1, V (April 63) – ABRV Ballarat ch 3, H (May 63) – ABCV Shepparton ch 6, V (Nov 63) – ABLV Traralgon ch 4, H (Sept. 63) – ABNT Launceston ch 3, H (July 63) – ABDQ Toowoomba ch 3, H (July 63).

PRIVATE STATIONS (Comm.)

Adv. accepted under conditions of Australian Broadc. Control Board. *The first two letters are an abbreviation of the name of the license*, the third indicates the state and the numeral signifies the channel. All st's 100/20 kW exc. TVT6 50/10 H.

1) NBN	3	Newcastle Broadc. & TV Corpo.	13) TNQ	7	Telecasters No. Queensl.
2) WIN	4	TV Wollongong	14) CBN	8	Country TV
3) TVT	6	Tasmanian TV Ltd.	15) RTN	8	Richmond-Tweed
4) BTV	6	Ballarat & Western Victoria T.	16) BCV	8	Bendigo & C. Victoria Telecast's
5) GMV	6	Goulburn Murray	17) TCN	9	Television Corpo.
6) ADS	7	TV Broadcasters	18) GTV	9	General TV Corpo.
7) TVW	7	TVW Ltd.	19) QTQ	9	Queensland TV
8) HSV	7	Herald Sun TV Ltd.	20) TNT	9	Northern TV Ltd.
9) ATN	7	Amalgamated TV	21) NWS	9	Southern TV Corpo.
10) BTQ	7	Brisbane TV Ltd.	22) GLV	10	Gippsland Latrobe Valley Telecast's
11) CTC	7	Canberra TV Ltd.			
12) RTQ	7	Rockhampton TV	23) DDQ	10	Darling Downs

1) P.O. Box 555, Newcastle – **D. Prgr.:** Mo-Fri 04.30–12.30. Sat 05.00–13.00. Sun 05.00–12.30.

2) P.O. Box 500, Wollongong. **Te.:** B. 6444. **Cable:** "Winteevee" – **L.P.:** St. Mgr.: R. J. Lord. Dir. Tec.: W. K. Roberts – **D. Prgr.:** 06.30–12.05 Wed, Thurs also 04.00–05.50).

3) 52 New Town Rd., Hobart, Tasmania – **L.P.:** Dir.: E. C. McRae. Dir. Tec.: W. S. Morrison – **D. Prgr.:** W 05.00–12.40 (Fri 13.10) Sat 19.30–12.30. Sun 04.00–12.40.

4) P.O. Box 464, Ballarat – **L.P.:** Gen. Mgr.: B. F. Jackson – **D. Prgr.:** 07.00–12.45.

5) Wynsham Str., Shepparton. **Te.:** 9307. **Cable:** Geemvee"" Melbourne – **L.P.:** Dir. Gen.: S. J. A. Kemp. St. Mgr.: R. J. A. Williams. Dir. Tec.: P. L. Twomey – **D. Prgr.:** 07.30–12.30.

6) 125 Strangways Terrace, No. Adelaide, So. Australia. **Te.:** 6-8591. **Cable:** "Adseven" – **L.P.:** Gen. Mgr.: K. A. MacDonald. Dir. Tec.: G. McLean, N. Sawyer – **D. Prgr.:** 02.00–13.30 Sat 06.00–14.00.

7) Osborne Park Road, Tuart Hill, We. Australia. **Te.:** 19-14-21. **Cable:** Teleview – **L.P.:** Dir. Gen.: M. L. Fry. Mgr.: J. W. Cruthen. Dir. Tec.: E. J. C. Snell – **D. Prgr.:** W 02.10–13.30. Sun 05.00–12.30.

8) Dercas & Wells Str., So. Melbourne.

9) Television Centre, Epping, NSW. **Te.:** NL 0111. **Cable:** "Telecentre, Sydney" – **L.P.:** Gen. Mgr.: J. H. Oswin. Dir. Tec.: M. Stevenson – **D. Prgr.:** Mo-Fri: 00.30–13.30. Sat 02.25–14.00.

10) 241 Adelaide Str., Brisbane.
11) P.O. Box 377, Camberra – **D. Prgr.:** 07.30–12.00.
12) Quay St., Rockhampton. 13) P.O. Box 715, Townsville.
14) G. P.O. Box 3650, Sydney – **D. Prgr.:** 07.30–12.30.
15) P.O. Box 423, Lismore – **D. Prgr.:** 07.15–12.10(Sat & Sun 12.40).
16) P.O. Box 240, Bendigo – **D. Prgr.:** 07.30–12.15.
17) Artarmon Rd., Willoughby, Sydney. **Te.:** 43-0444. **Cable:** "Diffusion" – **L.P.:** Gen. Mgr.: K. G. Hall. Dir. Tec.: J. N. Briton – **D. Prgr.:** Mo-Thurs 00.30–14.00. Fri 02.00–14.00. Sat 00.00–14.00. Sun 03.00–13.30.
18) Television City, Bendigo Str., Richmond E 1, Victoria. **Te.:** 42-4121. **Cable:** "Geetevee" – **L.P.:** Dir. Tec.: R. J. Biddle – **D. Prgr.:** Mo-Fri 01.45–13.45. Sat 07.00–13.45. Sun 02.00–13.15.
19) Box 72A GPO, Brisbane – **L.P.:** Gen. Mgr.: J. N. McKay. Dir. Tec.: P. J. Marlan – **D. Prgr.:** 02.00–12.30.
20) P.O. Box 873, Launceston – **D. Prgr.:** 07.30–12.15.
21) 125 Strangways Terrace, No. Adelaide, So. Australia. **Te.:** 6-9322. **Cable:** "Newenine" – **L.P.:** as 6 – **D. Prgr.:** 02.00–13.30. Sat 21.00–01.00, 07.00–14.00.
22) P.O. Box 220, Traralgon. **Te.:** 7-1366 – **L.P.:** St. Mgr.: G. C. Lewis. Dir. Tec.: J. C. Stevenson – **D. Prgr.:** 07.30–12.30(Sat 13.00).
23) P.O. Box 138, Toowoomba – **D. Prgr.:** 07.30–12.15.

HAWAII

All St's comm. – ch. A. – Po.: Vertical

HAWAIIAN BROADCASTING SYSTEM, LTD.: **Addr.:** P.O. Box 581, Honolulu – **L.P.:** Gen. Mgr.: F. Warren – **Stations:** Honolulu KGMB-TV ch A9 132/79 kW **Satellites:** Wailuku, Maui KMAU-TV ch A3 6/3 kW. Hilo KHBC-TV ch 9 1/0.5 kW. Kulani K70BS ch 70 UHF. Lihue, Kauai ch 70 UHF. Naalehu K74BA ch 74 UHF. Kalaheo, Kauai K82AM ch 82 UHF (Systems CBS and KGMB) – W 16.00(Sat. 01.30, Sun 19.00)–10.00 in E, Jap.

KAISER HAWAIIAN VILLAGE TELEVISION INC: **Addr.:** 1290 Ala Moana Blvd., Honolulu. **Te.:** 53–991 – **L.P.:** Gen. Mgr.: R. C. Block – **Station:** Honolulu KHVH-TV ch 4 26.3/13.2 kW – **Satellites:** Hilo KHJK-TV ch 13 2/1 kW. Wailuku, Maui KMVI-TV ch 12 30/15 kW. Honohina K76BB ch 76 UHF. Lihue, Kauai K74BC ch 74 UHF (Systems: ABC and KHUH) – **D. Prgr.:** 19.30–11.30 in E.

RADIO HONOLULU, LTD.: **Addr.:** 1170 Auahi St., Honolulu. **Cable:** "Radhon 140HU". **Te.:** 62–366 – **L.P.:** Gen. Mgr.: J. D. Keating – **Station:** Honolulu KONA-TV ch 2 60/30 kW. **Satellites:** Wailuku Maui KALA-TV ch 7. Lihue, Kauai K78AR ch 78 UHF. Hilo, Hawaii KALU-TV ch 11 (Systems: KONA) – **D. Prgr.:** 20.00–12.00 in E, J, F

MARIANAS ISLANDS

KUAM TELEVISION (Comm.): Addr.: P.O. Box 368, Agana. **Cable:** KUAM – **L.P.:** Pres. Gen. Mgr.: Phil Berg. Res. Mgr.: R. A. Jordan. Dir. Tec.: E. Sibayan – **Station:** ch A8, A10 0.15/0.09 kW V – **D. Prgr.:** Mo–Fri. 02.00 (Sat 22.00, Sun 00.00)–13.00.

NEW ZEALAND

NEW ZEALAND BROADCASTING CORP. (Statutory Public Body) – FI.: By license payments and adv. revenue Tues, Wed, Thurs, Sat. **Addr.:** P.O. Box 98, Wellington. **Cable:** Broadserv. **Te.:** 70999 – **L. P.:** See Sound Broadcasting – **Stations: Def.:** 625. Auckland ch 2 55.25/60.75 Mc 10/2 kW H – Wellington ch 1 45.25/50.75 Mc 10/2 kW H – Christchurch ch 3 62.25/67.75 Mc 10/2 kW H – Dunedin ch 2 55.25/25/60.75 Mc 0.50/0.25 kW H – **D. Prgr.:** D 06.00–11.00. **Testtr.:** 22.00–03.00 – **Pub.:** New Zealand Listener (Weekly).

NORTH AMERICA

BERMUDA

BERMUDA RADIO & TELEVISION CO., LTD. (Comm.):
FI.: By Adv. – **Addr.:** Radio Centre, Box 452, Hamilton. **Cable:** ZBM-TV. **Te.:** 2–1122 – **L. P.:** Man. Dir.: Walt Staskow. St. Mgr.: Ken Belton. Dir. Tec.: J. H. (Bert) Spershott – **Station:** ZBM-TV ch A10 4/2 kW H – **D. Prgr.:** 20.00–04.00. Test tr.: 13.00–20.00.

CANADA

CANADIAN BROADCASTING CORP. (Publicly owned)
Addr.: N.F. R: CBYT, P.O. Box, 610 Corner Brook – Qu. R: CBFT, CBMT, 1425 Dorchester Str. West, Montreal – Maritime R: CBHT, Bell Road, Halifax, N. S., CBAFT, 232 St. George Str., Moncton, N. B. – Prairie R: CBWT, CBLFT, 541 Portage Ave., Winnipeg, M, CBXT, P.O. Box 2290, Edmonton – British Columbia R: CBUT, 701 Hornby Str., Vancouver – Ontario R: CBLT, 354 Jarvis Str., Toronto. CBOT, CBOFT, P.O. Box 3220, Station "C" Ottawa. CFSN, P.O. Box 190, Stephenville. CFLA, Goose Bay, Lab.
L. P.: Gen. Mgr. Regional Broadc.: Ch. Jennings – **Newfoundland R.:** CBYT: Dir.: W. F. Galgay. Mgr.: C. V. Hierlihy – **Quebec R.:** CBFT, CBMT: Dir.: Yves Vien. Prgr. Dir.: F. Guerard (CBFT, French), K. F. Davey (CBMT). Dir. of TV–Sce's C. Frenette – **Maritime R:** CBHT: Dir.: J. Simonsen. Prgr. Dir.: C. MacCaul – **Prairie R:** CBWT: Dir.: W. Carpentier. Prgr. Dir.: B. D. MacPherson. Dir. Tec.: H. Heywood. CBWFT: Dir. Prgr.: L. Remillard. CBXT: St. Mgr.: R. Horley – **B.C. R:** CBUT: Dir. H Palmer. Prgr. Dir.: W. Inglis. Tec. Dir.: R. Whiteside – **Toronto Area:** CBLT: Dir.: W. R. Graham. Tec. Dir.: R. Horton. Dir. Prgr.: J. Lant. CBOT-CBOFT: Dir.: J. Dunn. Prgr. Dir.: D. Townsend. Tec. Dir.: J. Book.
CBS Stations: Po: V + E = English Netw. F = French Netw – Def. 525.

Station	Call	ch A	kW(ERP)	Sce.	H. of tr. (approx.)
Montreal[1]	CBFT	2	100/50	F	17.30–06.00
Vancouver[2]	CBUT	2	47.6/25.4	E	20.30–09.00
Halifax[3]	CBHT	3	56/34	E	16.45–04.27
Winnipeg	CBWT	3	57.8/34.7	E	19.00–07.00
Ottawa	CBOT	4	50.1/26.7	E	17.15–06.00
Corner Brook	CBYT	5	019/0.09	E	16.30–04.30
Edmonton	CBXT	5	318/159	E	22.00–08.00
Montreal	CBMT	6	43.8/26.2	E	19.30–06.00
Toronto	CBLT	6	99.5/53.5	E	16.30–05.33
Winnipeg	CBWFT	6	2.87/1.72	F	21.45–05.00
Stephenville	CFSN-TV	8	0.294/0.547	E	18.00–04.20
Goose Bay	CFLA-TV	8	0.359/0.107	E	18.30–04.30
Ottawa	CBOFT	9	31/17	F	18.15–05.30
Moncton	CBAFT	11	10.06/5.03F	F	18.25–04.30

Network Relay Stations:
Sturgeon Falls, Ontario[4] CBFST ch 7 9.75/5.525 kW – Kenora, Ontario CBWAT ch 8 0.493/0.247 kW – Flin Flon, Manitoba[5] CBWBT ch 10 6.8/3.4 kW – Cranbrook, B.C. CBUBT ch 10 1.1/0.505 kW – Trail, B.C.[6] CBUAT ch 11 0.187/0.124 kW.
Rebroadcasting Stations: [1]) CBFT-1 (Mont Tremblant, Que.) ch 11 0.6/0.3 kW. CBFT-2 (Mont Laurier, Que.) ch 3 4.64/2.32 kW – [2]) CBUT-1 (Courtenay, B.C.) ch 9 0.625/0.332 kW – [3]) CBHT-1 (Liverpool, N. S.) ch 12 0.412/0.248 kW. CBHT-2 (Shelburne, N.S.) ch 8 0.412/0.248 kW. CBHT-3 (Yarmouth, N.S.) ch 11 0.412/0.248 kW – [4]) CBFST-1 (Sudbury, Ont.) ch 13 0.601/0.361 kW – [5]) CBWBT-1 (The Pas, Man.) ch 7 0.260/0.130 kW – [6]) CBUAT-1 (Nelson, B.C.) ch 9 0.560/0.362 kW.
D. Prgr.: Approx. 20.00–22.00, 05.00–07.00.
The microwave network is now in operation from St. John's, Newfoundland, to Victoria, British Columbia.

PRIVATE STATIONS (Comm.)
FI.: By adv. – [1])indicates that the st. has a satellite-station.
Stations affiliated to CBS – English Service.

Call	ch	AkW(ERP)	Sce.	Location
* CKCW-TV[1]	2	25/15	E	Moncton, N.B.
* CJIC-TV	2	28/15	E	Sault Ste. Marie, O.
* CKCK-TV	2	100/53.5	E	Regina, Sask.
* CKPR-TV	2	55.4/30.2	E	Port Arthur O.
**CHSA-TV	2	14.6/7.3	E	Lloydminster, Al.
* CHCT-TV	2	100/50	E	Calgary, Alta.
**CHBC-TV	2	3.7/1.65	E	Kelowna BC
* CKVR-TV	3	100/50	E	Barrie, Oat.
**CKPG-TV	3	0.22/0.11	E	Prince George, BC.
**CKOS-TV	3	5/2.5	E	Yorkton, Sa.
*CJCB-TV[1])	4	100/60	E	Sydney, N.S.
*CHSJ-TV[1])	4	100/50	E	Saint John, N.B.
**CJCN-TV	4	86/43	E	Grand Falls, Nfld.
**CFCR-TV	4	0.95/0.475	E	Kamloops, BC.
**CHAB-TV	4	48/25	E	Moose Jaw, Sask.
**CHOV-TV	5	19.1/9.5	E	Pembroke, O.
**CJDC-TV	5	5/2.5	E	Dawson Creek, BC
*CKSO-TV	5	30/16	E	Sudbury, O.
*CKX-TV	5	54/27	E	Brandon, M.
**CJFB-TV[1])	5	13.3/6.65	E	Swift Current, Sa.
**CKMI-TV	5	13.85/6.77	E	Quebec, Q.
**CKBI-TV	5	61/36.5	E	Prince Albert, Sa.
*CJON-TV[1])	6	62/33	E	St. John's Nfld.
*CFCL-TV	6	100/50	E	Timmins, O.
**CHCA-TV	6	6.6/3.3	E	Red Deer, Alta.
**CHAT-TV	6	5.7/3	E	Medicine Hat, Al.
*CHEK-TV	6	100/50	E	Victoria, B.C.
*CJLH-TV[1])	7	96.1/44.9	E	Lethbridge, Alta.
*CKNX-TV	8	90/55	E	Wingham, O.
*CFQC-TV	8	180/100	E	Saskatoon, Sask.
**CFXU-TV	9	73/37	E	Antigonish, NS.
*CKLW-TV	9	178/107	E	Windor, O.
*CFPL-TV	10	325/195	E	London, O.
CFCH-TV	10	28.5/14.25	E	North Bay, O.
*CKWS-TV	11	130/78	E	Kingston, O.
*CHEX-TV	12	102/61.2	E	Peterborough, O.
*CKCO-TV	13	325/160	E	Kitchener, O.

Stations affiliated to CBC French Service

Call	ch	kW(ERP)	Sce.	Location
*CJBR-TV[1])	3	49.3/28	F	Rimouski, Q.
*CFCM-TV	4	100/50	F	Quebec, Q
*CKRN-TV	4	115/57.5	F	Rouyn, Q.
*CHAU-TV	5	52.5/26.25	F	New Carlisle, Q.
*CHLT-TV	7	170/100	F	Sherbrooke, Q.
*CKRT-TV	7	39/19.5	F	Riviere du Loup, Q.
*CKBL-TV	9	150/90	F	Matane, Q.
*CKRS-TV	12	20/10	F	Jonquiere, Que.
*CKTM-TV	13	42.5/21.25	F	Trois Rivieres, Q.

Other Private Stations.

Call	ch	kW(ERP)	Location
CFCJ-TV	2	100/55.4	Port Artur, O.
CFRN-TV	3	180/90	Edmonton, Alta.
CFCN-TV	4	100/50	Calgary, Al.
CJCH-TV[1])	5	58.2/26.4	Halifax, N.S.
CJAY-TV	7	325/180	Winnipeg, Man.
CHAN-TV	8	164/81	Burnaby, B.C.
CJSS-TV	8	130/78	Cornwall, O.
CFTO-TV	9	325/162	Toronto, O.
CFTM-TV	10	325/160	Montreal, Q.
CKGN-TV	10	51.5/27.7	North Bay, O.
CHCH-TV	11	230/143	Hamilton, O.
CFCF-TV	12	325/160	Quebec, Que.
*CFCY-TV[1])	13	386/19.3	Charlottetown, P.E.I.
CJOH-TV	13	152/76	Ottawa, O.

*) Basic Affiliates **) Supplementary Affiliates.

UNITED STATES OF AMERICA

	Authorized	Licensed	Operating
TV commercial st's:	657	505	562
TV educational st's:	81	43	58

EDUCATIONAL TV-STATIONS: The 81 operating TV educational stations are mainly situated in the large cities and university centres. They are of three types: 1) Community stations supported by voluntary funds; 2) University stations supported by State and local budgets; 3) State-owned networks covering entire divisions of the country supported entirely by taxation. An interesting development for educational purpose is closed-circuit TV, limited to universities and to individual school-systems. A prgr. sce. known as the National Educational Television and Radio Center located at Coliseum Bldg., Columbus Circle, New York City, N.Y., supplies educational TV prgrs. to the present stations and in addition, distributes its prgr's to both closed circuit and film projectors which are in use in thousands of schools.

THE ARMED FORCES RADIO & TELEVISION SERVICE

A: Army. AF: Air Force N: Navy. RCA: Royal Canadian Army.

AREAS: ch A:		ch	Watt
Alaskan			
Adak	N	8	200
Ft. Greely	A	8	200
Galena	AF	8	200
Kodiak	N	8	200
Northeast Cape	AF	11	100
Wildwood	A	8	100
Caribbean			
F. Clayton[2]	A	8	200
Ramey[1]	AF	21	250
Guantanamo[3]	N	8	200
F. Davis[2]	A	10	200
Roosevelt Rds.[1]	N	8	200
N. Atlantic			
Goose Bay[4]	AF	8	200
Sondrestrom[7]	AF	8	200
Thule AFB[7]	AF	8	100
Keflavik[8]	N	8	100
E. Harmon AFB[4]	AF	8	100
Lajes Field[5]	AF	8	50

AREAS: ch A:		ch	Watt
Pacific			
Midway	N	4	150
N. African			
Tripoli[10]	AF	8	200
Asmara[11]	A	8	200
European			
Sprangdahlem[13]	AF	22	1000
Iraklion[14]	AF	8	200
Ramstein[13]	AF	26	1000
N. EA., EA., Far EA.			
Teheran[15]	A	8	500
Okinawa[17]	AF	8	5kW
Seoul[18]	A	3	500
Camp Kaiser[18]	A	12	500
Chunchon[18]	A	3	50
Paju-Ri[18]	A	12	500
Camp Casey[18]	A	3	50
Osan[18]	A	12	150
Uijong-Bu[18]	A	12	50
Clark AFB[19]	AF	8	200
Misawa AFB[16]	AF	73	30

1) Puerto Rico. 2) Panama Canal Zone. 3) Cuba. 4) Canada. 5) Azores. 6) Bermuda. 7) Greenland. 8) Iceland. 9) Marshall Isl. 10) Libya. 11) Eritrea. 12) Saudi Arabia. 13) Germany. 14) Greece. 15) Iran. 16) Japan. 17) Ruykyu Isl. 18) Korea. 19) Philippines

AMERICAN BROADCASTING CO. (A division of American Broadc.: Paramount Theatres, Inc.) **Addr.:** 7 West 66th St., New York 23, N.Y. **Te.:** See Sound Broadc. – **L. P.:** Pres.: L. H. Goldenson. Gen. Mgr. of ABC-TV Network J. Barnathan. Press Inf.: M. J. Foster – **Owned and operated st.'s:** WABC-TV, New York. WBKB, Chicago. WXYZ-TV, Detroit, KABC-TV, Los Angeles, KGO-TV, S. Francisco

COLUMBIA BROADCASTING SYSTEM INC., 485 Madison Av., New York 22, N.Y. **Te.:** See Sound Broadc. – **L.P.:** Pres. CBS-TV Network Division: J. T. Aubrey. Dir. Inf. Sce's: H. Berk. – **Owned and operated st.'s:** WCBS-TV, New York, WBBM-TV, Chicago, KNXT, Los Angeles, WCAU-TV, Philadelphia, KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY, INC., RCA Building, New York 20, N.Y. – **L.P.:** Chairman of the Board: R. W. Sarnoff. Pres.: R. E. Kintner. Exec. Vice Pres. TV network: W. D. Scott. Vice Pres. Corporate Affairs: L. Bernstein. – **Owned and operated st.'s: WNBC-TV,** 30 Rockefeller Plaza, New York 20, N.Y. – **WRC-TV,** 4001 Nebraska Ave., Washington 16 D.C. – **WNBQ,** Merchandise Mart, Chicago 54, Ill. – **WRCV-TV,** 1619 Walnut Str., Philadelphia 3, Pa. – **KRCA,** Sunset and Vine, Hollywood 28, Cal.

CENTRAL AMERICA

COSTA RICA

TELEVISORA DE COSTA RICA LTDA. (Comm.): **Addr.:** Apt. 3876, San Jose. **Cable:** Television. **Te.:** 2537 – **L.P.:** Dir.: R. Picardo and C. M. Reyes Z. Dir. Tec.: Eng. C. M. Reyes – **Station:** TI-TVCR ch A7 3.6/1 kW. Rel. st.'s: Villa Mills ch A11 1 kW. Zarcero ch A12 1 kW (System RCA) – **D. Prgr.:** 22.00–04.00 in E, Sp, Jap

"TIC-TAC" TELEVISION (Comm.): **Addr.:** Apt. 4666, San Jose. **Te.:** 3283 – **L.P.:** Dir.: A. Vargas V – **Station:** ch A9 1.2/0.6 kW H – **D. Prgr.:** 00.30–04.00.

CUBA

CM-	ch A	kW II	Name and address
AB-TV	2	110/55	Cadena Nacional, Habana
KU-TV	2	13.7/6.9	Circuito CMQ, Stgo. de Cuba
JA-TV	2	14.3/4	Cadena Nacional, Ciego de Avila
KJ-TV	3	27.5/13.7	Circuito CMQ, Holguin
H-TV	3	31/8	Cadena Nacional ,St. Clara
BF-TV	4	100/50	Cadena Nacional, Habana
J-TV	4	25/12.5	Cadena Nacional, Camagüey
HQ-TV	5	25.6/12.8	Circuito CMQ, Sta. Clara
BF-TV	5	14.3/7.1	Cadena Nacional, Stgo. de Cuba
Q-TV	6	100/50	Circuito CMQ, Habana
JL-TV	6	55.8/27.6	Circuito CMQ, Camagüey
BA-TV	7	51/25.5	Cadena Nacional, Habana
JV-TV	7	18.2/9.08	Circuito CMQ, Ciego de Avila
–	7	32/16	Cadena Nacional, Santiago de Cuba
LR-TV	8	5/1.5	Cadena Nacional Holguin
GQ-TV	9	28/7	Circuito CMQ, Matanzas
–TV	10	25/12.5	Cadena Nacional, Habana
BJ-TV	12	115/57.5	TV de la Libertad, Habana (Colour)
CFF-TV	12	32/16	Cadena Nacional, Jatibonico
CH-TV	11	32/16	Cadena Nacional, Matanzas
G-TV	13	28/14	Cadena Nacional, Matanzas
–	13	32/8	Cadena Nacional, Victoria de la Tunas

Havana st's CMAB-TV e CMBF-TV are operated as one network by the Go. CMQ-TV is operated as a second network with Go-Prgr's. **CMQ-TV: Addr.:** Radiocentro, Habana – **D. Prgr.:** W 16.30–04.00. **CMBF-TV: Addr.:** Mazon y San Miguel, Habana – **D. Prgr.:** W 19.00–04.00. Sun 16.27–04.00.

DOMINICAN REPUBLIC

RADIO SANTO DOMINGO-TV (Comm.): **Addr.:** Calle Miami Sto Domingo **Cable:** Dominicana – **Station:** HIT-TV ch A4 5 kW. Satellites: La Cumbre ch A9 500 W. Santo Cerro ch A2 5 kW.

RAHINTEL TELEVISION: Addr.: Radio HIN C Por A, Eusanche 30 de Mayo Sto Domingo. **Cable:** Rahin. **Te.:** 3-1011 – **L.P.:** Dir. Gen.: J. Oscar Felix G. Dir. Tec.: J. L. Martin Caro. Dir. For. Rel.: R. A. Reynoso – **Station:** ch A7 1 kW H – **D. Prgr.:** 23.05–03.00 –

EL SALVADOR

TELEVISION SALVADOREÑA S.A. (Comm.): **Addr.:** Apt. 947, San Salvador. **Cable:** Televisa. **Te.:** 7331 – **L.P.:** Gen. Mgr.: A. Vilar – **Stations:** YSEB-TV ch A6 1.5 kW and ch A8 40/20 kW – **D. Prgr.:** 18.00–20.00, 22.30–03.00.

RADIO TELEVISION YSU, S.A. (Comm.): **Addr.:** See Sound Broadcasting – **L.P.:** Dir.: F. Valladeres V. Dir. Tec.: R. H. Rahn – **Stations:** YSU-TV ch A4 70/40 kW H – **D. Prgr.:** 18.00–20.00, 23.30–04.30 – **Planned station:** YSY-TV Television Nacional, Avda. Sur 1, San Salvador ch A2.

GUATEMALA

TELEVISION NACIONAL (Go.): **Addr.:** Edif. de la Tipografia Nacional, Ca. 18 de Septiembre y 7a Ave. Sur, Guatemala. **Te.:** 25045 – **L.P.:** Dir. Gen.: C. T. y Murga. Dir. Tec.: M. Mazariegos – **Station:** TGW-TV ch A8 1/0.5 kW – **D. Prgr.:** 00.00–05.00.

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RADIO-TELEVISION GUATEMALA, S.A. (Comm.): Addr.: Apt. 1367, Guatemala. Cable: Television. Te.: 24-1-24 – L.P.: Gen. Mgr.: W. G. Campbell. Dir. Tec.: B. de la Torre – Station: TG-BOL-TV ch A3 15/7 kW H – D. Prgr.: 17.45–19.30, 23.30–06.00

LA VOZ DE CENTRO AMERICA (Comm.): Addr.: 7a Av. 1–19, Z-9, Guatemala – L.P.: Dir.: F. H. Cordon C. – Station: TGTV ch A11 1/0.5 kW.

HAITI

TELE-HAITI (Comm.): Addr.: 384 Av. Jn. Jacques Dessalines, Port-au-Prince. Cable: Telehaiti. Te.: 2208 – L.P.: Dir. Gen.: M. Rosenberg. Mgr.: Mme Paula Mews. Dir. Tec.: Ed. C. Gentil – Station: 4VMR-TV ch A5 2 kW V – D. Prgr.: 17.00–19.00, 22.30–03.00. Sun 18.00–23.00. A monopoly contract will not allow other TV-stations.

HONDURAS (REP.)

RADIO Y TELEVISION HONDUREÑA S. A. (Comm): Addr.: Tegucigalpa. Te.: 12-93, 22-41 – L.P.: Dir. Gen.: M. Brooks H. Dir. Tec.: A. D. Lardizabal – Station: HRTW-TV ch A5 4/2 kW.

MEXICO

(1) affiliated to Telesistema Mexicano, (2) independent st. All st.'s comm. exc. XEIP.

INSTITUTO POLITECNICO NACIONAL (Cultural) (2): Addr.: Casa de Santo Tomás, México, D.F. – Station: XEIP-TV ch All – D.Prgr.: (approx.) 23.15–4.30.

TELEVISION DE LA FRONTERA, S.A. (2): Addr.: Vicente Guerrero 704, Ci. Juárez, Chih. – Station: XEJ-TV ch A5 3.65 kW.

TELEVISORA DE MEXICALI, S.A. (1): Addr.: P.O. Box 1356, Mexicali, B.C. – Station: XEM-TV ch A11 5 kW – D.Prgr.: 00.00–06.00.

TELESISTEMA MEXICANO, S.A. Addr.: Edificio Televicentro, Av. Chapultepec 18, México, D.F. Te.: 18–50–20 – L.P.: Pres.: E. Azcárraga Sr. St. Mgr. 1st Netw.: E. Azcárraga Jr. Mgr. 2nd Netw.: R. O'Farril Mgr. 3rd Netw.: Ing. G. González C. Dir.Tec.: M.A. Pereyra – Stations: 1) XEW-TV ch A2 50 kW H (México City). Relay st.'s: XEQ-TV ch A9 50 kW H (Paso de Cortés), XEZ-TV ch A3 10 kW H (Cerro del Zámerano), ch A5 (Aguascalientes, Ags.), ch A12 0.05 kW (Cerro de Tepatitlán, Jal.), XHG-TV ch A4 5/2.5 kW H (Guadalajara, Jal.) – 2) XHTV ch A4 15/7.5 kW H (México City). Rel. st.'s: XEX-TV ch A7 22.5 kW H (Altzomoni), ch A6 10 kW H (Cerro del Zamorano, Méx.) – 3) XHGC-TV ch A5 15/7.5 kW H (México City) – 4) Ch A12 (San Antonio, Texas, U.S.A.) – D.Prgr.: 1) Mo–Fri 14.00–20.30, 22.15–06.45, Sat 14.00–20.00, 22.30–05.45, Sun 16.30–06.45 – 2) D 20.30–05.45, Mo–Fri 17.00–17.30, Sat, Sun 15.30–20.00 – 3) D 21.30–05.45, Mo–Sat 17.00–17.30, Sun 17.15–17.45.

TELEVISION DEL NORTE, S.A. (2): Addr.: Jiménez Nte. 730, P.O. Box 1833, Monterrey, N.L. Te.: 2-62-00 – L.P.: Dir.Gen.: G. M. de la Garza. Gen.Mgr.: G. de la Garza Jr. Dir.Tec.: F. Ruiz – Station: XET-TV ch A6 108/54 kW H – D.Prgr.: W 22.15–06.00.

RADIO TELEVISION, S.A. (2): Addr.: Calle Quinta 220, Edificio Barbachano, Despachos 14-16, Tijuana, B.C. – St.: XETV ch A6 35 kW.

CADENA TELEVISORA DEL NORTE, S.A. (1): Addr.: Privada Alameda y Espinosa, Monterrey, N.L. Te.: 2-01-01 – L.P.: Gen.Mgr.: M. Quintanilla – Stations: XEFB-TV ch A3 15/7.5 kW H. XHX-TV ch A10 84/42 kW H – D.Prgr.: XEFB-TV: 17.45–06.15. XHX-TV: D 22.30–06.00.

TELEVISION DE NUEVO LAREDO (1): Addr.: Aldama 2611, Nuevo Laredo, Tams. Te.: 21-82 – L.P.: Gen.Mgr.: R. Tijerina C. – Station: XEFE-TV ch A11 0.15 kW.

TELEVISION TAPATIA, S.A. de C.V. (2): Addr.: Circunvalación 265, P.O. Box 5, Guadalajara, Jal. Te.: 4-82-82. Telex: 06–830 – L.P.: Gen.Mgr.: A. Diaz G. Dir.Tec.: Ing. C. Sánchez – St.: XEHL-TV ch A6 6/3 kW H – Mo–Sat 20.20–06.30, Sun 16.30–00.15.

TELEVISORA DE LA LAGUNA (1): Addr.: Torreón, Coah. – XELN-TV ch A4 0.5 kW.

TELEVISION DE CIUDAD JUAREZ (2): Addr.: P.O. Box 271, Ci. Juárez, Chih. – L.P.: Gen.Mgr.: S. R. Molinar F. – Station: XEPM-TV ch A2 10 kW.

TELEVISORA DE CHIHUAHUA, S.A. (1): Addr.: Chihuahua, Chih. – XERA-TV ch A11 0.05 kW H d.

TELEVISORA DE HERMOSILLO, S.A. (1): Addr.: Veracruz y Manuel I. Loaiza, P.O. Box 603, Hermosillo, Son. Te.: 3-66-66 – L.P.: Gen.Mgr.: R. Azcárraga. Dir.Tec.: Eng. E. Téllez – Station: XEWH-TV ch A6 1.12/0.56 kW H – D.Prgr.: Mo–Fri 19.30–20.30, 17.00–06.30, Sat 22.00–06.00, Sun 19.00–06.00.

TELEVISORA DE OCCIDENTE, S.A. (1): Addr.: Av. Alemania 285, Guadalajara, Maj. Te.: 4-41-40 – L.P.: Gen.Mgr.: M. de Coso Y. Dir.Tec.: R. Venegas – Stations: XEWO-TV ch A2 5/2.5 kW H. XHG-TV ch A4 5/2.5 kW H (Rel. ch 2) – D.Prgr.: XEWO-TV: D 17.45–06.45. XHG-TV: As Telesistema Mexicano 1st Netw.

TELEVISORA DE CALIMEX, S.A. (1): Addr.: Tijuana, B.C. – XEWT-TV ch A12 5 kW.

TELEVISION DE NOGALES, S.A. (1): Addr.: Av Alvaro Obregón 228, Colonia Moderna, P.O. Box 600, Nogales, Son. Te.: 5-62 – L.P.: Gen.Mgr.: Dr. F. Arriola G. Dir. Tec.: Ing. C.P. Morreale – Station: XHFA-TV ch A2 10/5 kW – D.Prgr.: 00.00–07.00.

TELEVISORA DEL GOLFO, S.A. de C.V. (1): Addr.: Eaqs. la. Avenida con calles 9 y 10, Col. Jardín 20 de Noviembre, Ci. Madero, Tams. – L.P.: Dir.Gen.: F. Azcárraga. Dir.Tec.: P. Márquez J. – Station: XHGO-TV ch A7 14/5 kW H – D.Prgr.: 23.15–06.00.

NETHERLANDS ANTILLES

TELECURAÇAO (Comm.): Addr.: P.O. Box 415, Curaçao. Cable: Telecuracao. Te.: 13140 – L.P.: Pres.: G. A. Bartell. Dir. Tec.: J. Cornellison – Station: ch E8 3.5 kW H – D. Prgr.: 21.30–04.00.

NICARAGUA

TELEVISION DE NICARAGUA, S. A. (Comm.): Addr.: Apdo. 1505, Managua. Cable: Tevenic. Te.: 5404 – L.P.: Dir. Gen.: R. O. Cano. Dir. Tec.: J. Buitrago Ch – Stations: YNSA-TV: ch A8 0.3/0.15 kW, V and ch A6 6/3 kW (System RCA) – D. Prgr.: 22.00–05.00.

PANAMA

CIRCUITO RPC-TELEVISION: Addr. and L.P.: See Sound Broadcasting – Station: HOHM-TV ch A4 50/25 kW H, ch A12 (rel. ch 4) 30/15 kW H – D. Prgr.: 21.30–04.30.

TELEVISORA NACIONAL S. A. PANAMA (Go.): Addr.: Ric. Chiari, Panama – Stations: HOU34 ch A2 90/45 kW. HP5C-TV Panama. Relay: HP5C Panama ch A6 0.5/0.2 kW (System RCA) – D. Prgr.: 19.00–04.00 – **CORPORATION PANAMA de RADIO-DIFFUSION, S. A.** (Comm.): Addr.: Carlos Eleta A., Panama. Stations: HOHM-TV ch A4 45/22 kW, HOH33 Chitre ch A5 0.5/0.2 kW. HOH4 David ch A6 0.25/0.5 kW. HOF3 Sona ch A7 0.275 kW. HOHM Panama ch A12 25/12.5 kW – **ZONA DEL CANAL**: CFN-TV ch A8, ch A10 Davis.

PUERTO RICO

Call	ch	A kW	Comm. exc. Dept. of Education
WKAQ-TV	2	100/50	El Mundo Inc., Box 5096, Puerta de Tierra
WIPM-TV	3	35.5/17.8	Dept. of Education, Hato Rey, San Juan.
WAPA-TV	4	56.39/33.9	Ponce de Leon Broadc. Co. of P. R., P.O. Box 2050, S. Juan.
WORA-TV	5	100/50	Supreme Broadc. Co. Inc. of P. R., Box 43, Mayaguez.
WIPR-TV	6	100/50	Dept. of Education, P.O. Box 306, S. Juan.
WRIK-TV	7	1.4/0.7	Ponce TV Corpo., Darlington Bldg.,
WSUR-TV	9	2.73/0.4	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. in Villalba.
WKBM-TV	11	2.71/13.5	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. Caguas.
WOLE-TV	12	17.88/8.91	Western Broadc. Corpo., Box 2050, San Juan. Tr. in Pico Atalay, A. Ricon.

D. Prgr.: Approx. 17.00–20.00 to approx. 02.00–04.00.

TRINIDAD

TRINIDAD AND TOBAGO TELEVISION CO, Ltd. Addr.: Television House, Maraval Road Port-of-Spain. Cable: Television Trinidad. Te.: 21151 – L.P.: Gen. Mgr.: R. F. Goodsman. Dir. Tec.: W. Corkhill – Station: ch A2 25 kW H.

VIRGIN ISLANDS

ISLAND TELERADIOSERVICE, Inc. – Addr.: P.O. Box 1947, St. Thomas - Station: WBNB-TV ch A10 2.5/1.26 kW.

SOUTH AMERICA

ARGENTINA

All st.'s comm. (exc. Primera TV Argentina - Go.).

PRIMERA TELEVISORA ARGENTINA: Addr.: Av. Alem 735, Buenos Aires. Te.: 32-7090. L.P.: Dir.: A. J. M. Moreno. Dir. Tec.: F. Licht. Chief Eng.: M. Koeble. Station: LS82-TV ch A7 40 kW – Relay St.: Rosario ch A7. D. Prgr.: 15.30–03.30 – **CA-DE-TE**: Addr.: Av. F. Alcorta 3428 y Castex 3345, Buenos Aires. Te.: 72-3073. L.P.: Dir. I. Recalde. Gen. Mgr.: S. Castro. Dir. Tec.: L. H. Schweizer. Station: LS83-TV ch A9 40 kW. D. Prgr.: 14.55–03.50 – **TELEONCE**: Addr.: Calle Pavon 2444, Buenos Aires. Te.: 910600. L.P.: Dir.: R. L. Stahlberg. Station: LS84-TV ch A11 120 kW H (System GE). D. Prgr.: 21.00(Sun 15.00)–03.00. Test tr. W 20.00–21.00, Sun 14.30–15.00 – **RIO DE LA PLATA**: Addr.: San Juan 1160, Buenos Aires. Te.: 273601. L.P.: Dir. Gen.: O. L. Massa. Station: LS85-TV ch A13 115 kW H. D. Prgr.: 13.00–03.00 – **DIFUSORA MARPLATENSE**: Addr.: Av. Luro 2907, Mar del Plata. L.P.: Gen. Mgr.: M. A. Etchichury. Dir. Tec.: R. Casanova. Station: LU86-TV ch A8 5 kW H. D. Prgr.: 21.00–03.00 – **SOCIEDAD DIFUSORA MENDOZA**: Addr.: Garibaldi 7, Mendoza. Te.: 17335. L.P.: Dir. Gen.: A. Anguita. Consulting Eng.: H. Bortolamedi. Station: LV89-TV ch A7 15 kW H. D. Prgr.: 21.30–02.00. Testtr.: 15.00–17.30 – **TELECOLOR, S. A.**: Addr.: Av. Gral Paz 266, Cordoba. Te.: 87685. L.P.: Mgr.: J. A. Smith. Stations in Fernando Fader 111, Cerro de las Rosas, Ci. de Cordoba: LU1H ch A12 0.5 kW H. D. Prgr.: 21.00–02.00.

BRAZIL

*) belong to Emissoras Associados (Chateaubriand Group) – **) belong to "Rede Unidas de Televisão" – ***) belong to organisation "Victor Costa".

*) **TELEVISAO-TUPI**: Addr.: Av. Jcão Luiz Alves, 13-Urca, Rio de Janeiro – L.P.: Dir. Gen.: Dr. N. G. Bastos. Dir. Tec.: Dr. J. P. Bodin – Station: ch A6 25 kW H – D. Prgr.: 18.30–03.00. Relay st.'s: TV-Mariano Procopio ch A10, Juiz de Fora, MG – TV-Tupi Difusora ch A3, Ribeirão Preto, SP.

) **TELEVISAO-RIO: Addr.: Av. Atlantica 4264, Rio de Janeiro. Cable: Teverio – L.P.: Gen. Mgr.: A. C. Leite – Station: ch A13 36/18 kW H – D. Prgr.: Mo-Fri 20.00(Sat, Sun 15.00)–03.00. Relay st.'s: TV-Juiz de Fora, MG ch A5 5/2.5 kW H. TV-Lafaiete ch A6 5/2.5 kW H. TV-Guarantigueta ch A12 5/2.5 kW H.

EMISSORA DE TELEVISAO CONTINENTAL: Addr.: Rue das Laranjeiras 291, Rio de Janeiro. Te.: 42-6419 – L.P.: Dir. Gen.: C. Berardo. Dir. Tec.: J. Zaeyen – Station: ch A9 10 kW H – D. Prgr.: 21.00–03.00.

TELEVISAO MAYRINK VEIGA, Rio de Janeiro – Station: ch A2 25 kW.

RADIO GLOBO DO RIO DE JANEIRO: Addr.: Rua Irineu Marinho 35, Rio de Janeiro – L.P.: Dir. Gen.: Dr. R. Marinho – Station: ch A4 25 kW.

Sao Paulo, SP

*) **TELEVISAO TUPI** – Station: ch A4 25 kW – D. Prgr.: W 15.00 (Sun 12.00)–03.00.

*) **TELEVISAO CULTURA** – Station: ch A2 25 kW – D. Prgr.: 12.00–01.30.

***) **TELEVISAO PAULISTA** – Station: ch A5 10 kW – D. Prgr.: W 18.00–02.00. Sun 14.08–01.40.

) **TELEVISAO RECORD – L.P.: Dir. Gen.: E. A. Amaral Carvalho – Station: ch A7 36/18 kW H – D. Prgr.: Mo-Fri 15.00–02.00, Sat 15.00–03.00, Sun 13.00–00.55.

TELEVISAO EXCELSIOR – Station: ch A9 10 kW – D. Prgr.: D 19.00(Sat, Sun 18.00)–01.00.

*) **TELEVISAO-TUPI**, Ribeirão Preto, SP. – Station: ch A3 1 kW – D. Prgr.: rel. TV-Tupi, São Paulo exc. 21.00–23.00.

***) **TELEVISAO BAURU**, Bauru, SP. – Station: ch A2 0.5 kW – D. Prgr.: Operates in conjunction with TV-Paulista, São Paulo.

*) **TELEVISAO ITACOLOMI**: Addr.: Av. Tocantins 499, Belo Horizonte, MG – Station: ch A4 36 kW H (System RCA) – D. Prgr.: D 21.00(Sat, Sun 15.00)–03.00 – Linked by microwave with TV-Tupi, Rio; also with São Paulo but inconsistent.

*) **TELEVISAO PIRATINI**, Porto Alegre, RGS – L.P.: Dir.: F. Peres. Dir. Tec.: J. Carpes – Station: ch A5 6/3.15 kW V – D. Prgr.: 20.30(Sat, Sun 16.30)–03.00.

TELEVISAO JORNAL DO COMERCIO – Station: ch A2 20 kW – D. Prgr.: Mo-Fri 18.05–01.40, Sat 20.00 23.30, Sun 18.05–01.15.

*) **TELEVISAO CLUBE DE PERNAMBUCO** – Station: ch A6 25 kW – D. Prgr.: 19.00–01.00.

*) **TELEVISAO ITAPOAN** (Comm.): Addr.: Rua Carlos Gomes 57. Te.: 6170. Studio: Rua Ferreira Santos, Salvador, BA. Te.: 7111 – L.P.: Dir. Gen.: O. Tavares. Dir. Tec.: M. Saliverus – Station: ch A5 2 kW (System RCA) – D. Prgr.: 20.00(Sat 18.00, Sun 16.00)–03.00 – F.PL.: Rel. st. Ilheus and Aracaju.

Berlingske Tidende

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TELEVISAO NACIONAL (Go.): Addr.: Emprenza Incorporado ao Patrimonio Nacional, Brasilia, DF – Station: ch A2 2 kW – D. Prgr.: 22.25–01.30.

*) **TELEVISAO BRASILIA** – Station: ch A6 1 kW – D. Prgr.: 22.25–01.30 – Rel. st.: R. Clube Goiania ch A6, Goiania, GO.

) **TELEVISAO ALVORADA, Brasilia – Station: ch A8 5/2.5 kW – D. Prgr : 22.30-02.00.

*) **TELEVISAO PARANA**: Addr : Rua J. Loureiro 119, Curitiba – L.P.: Dir.: C. Guilherme Addor. Dir. Tec.: J. Louro – Station: ch A6 – D. Prgr.: 19.57–02.30.

RADIO FARROUPILHA: Addr.: Galeria Rosario 22 Andar, Porto Alegro, Rio Grande do Sul. Te.: 4544 – L.P.: Dir. Gen.: F. Peres. Dir. Tec.: J. Carpes – Station: Piratini ch A5 6/3.15 kW – D. Prgr.: 20.30(Sat, Sun 16.30)–03.00.

TELEVISAO PARANAENSE: Addr.: Senador Alencar Guimarães 97, Curitiba, PA – L.P.: Dir. Gen.: Dr. Nagibe Chede. Dir. Prgr.: R. Ousaluk. Dir. Tec.: O. B. Freire – Station: ch A12 10/5 kW H – D. Prgr.: W 14.00–16.30, 20.00–03.00, Sun 16.00–03.00.

*) **TELEVISAO RADIO CLUBE**, Fortaleza, CE – Station: ch A2 2 kW.

TV-GUARATINGUETA, Guaratingueta, SP – Station: ch A12.
TV-LAFAIETE, Conselheiro Lafaiete, MG – Station: ch A12.
TV-MARIANO PROCOPIO, Juiz de Fora, MG – Station: ch A5.
TV-MARAJOARA, Belém, PA – Station: ch A2.
TV-COROADOS, Londrina – Station: ch A3.
TV-ITATIAIA, Itatiaia, RJ – Station: ch A2A (UHF).
TV RADIO CLUBE: Addr.: 17 Av. Goias. Goiânia. Te.: 4041 – L.P.: Dir. Gen.: F. B. Sobrinho – Station: ch A4 0.5 kW (System Maxwell) – D. Prgr.: D 20.00-02.00.

PROJECTED STATIONS
TV Diario Cariosa, Rio de Janeiro, ch A11 – **TV-Gazeta**, São Paulo, ch A11 – **TV-Bandeirantes**, São Paulo, ch A13 – **TV-Difusora de Santos**, Santos, SP, ch A8 – **TV-Campos**, Campos, ER, ch A8 5/2.5 kW H – **TV-Volta-Redonda**, Volta Redonda, ER, ch A8 5/2.5 kW H – **TV-Nova Friburgo**, Nova Friburgo, ER, ch A3 5/2.5 kW H – **TV-Inconfidencia**, Belo Horizonte, MG, ch A2 – **TV-Princesa**, Porto Alegre, RS, ch A10 – **TV-Tamandaré**, Recife, PE – **TV-Anhanguera**, Goiânia, GO – **TV-Feira de Santana**, Feira de Santana.

CHILE

UNIVERSIDAD CATOLICA (Educational): Addr.: Alameda Bdo. O'Higgins 340, Casilla 114-D, Santiago. Te.: 30091 – L.P.: Dir. Tec.: P. Caraball – Station: ch A13 10 kW H (System RCA) – D. Prgr.: 23.00–02.00 Tues, Thurs, Sun.

UNIVERSIDAD DE CHILE (Educational): L.P.: Dir.: O. Raul Akardi. Dir. Tec.: B. Dezerega – Station: ch A9 40 kW V – D. Prgr.: W 00.00–03.00 exp. – Planned station: A commercial TV st.

COLOMBIA

R. TELEVISORA NACIONAL (Go.): FI.: By state and adv. – AD.: 40% of prgrs. are non-comm. remainder carry comm. announcements – Addr.: Direccion General de la Radiotelevisora Nacional de Colombia, Apartado Nacional 1824, Bogota – L.P.: Dir. Gen.: F. Restrepo S. Dir. Tec.: W. Puth – Stations: All st.'s owned by Televisora Nacional:

Call: HJRN-TV	ch	kW		ch	kW
Bogota	A9	45/225d	Madrono	A11	80/40
Medellin	A3	15/12.5d[2]	El Quindio	A9	40/20
Manizales	A9	100/50d	Boyaca	A7	20/10d
Alto Magdalena	A7	600/300d	Tynja	A10	20/5
Cali	A7	120/30d	Valle del Cauca[1]	A7	60/30
Cali[1]	A10	10/2W	Paz del Rio[1]	A7	150/40W
Manjui	A7	400/200[2]	Bucaramanga[1]	A10	5/2

[1] Satellite st.'s. [2] Exp. [3] Relay – Under construction: C. Quemado ch. A4 900/400 kW – El Carmen de Bolivar ch A10 40/20 kW – Monteria ch A7 100/50 kW – Las Jurisdicciones ch A5 200/50 kW – Neiva ch A9 100/50 kW – Purace ch A11 40/20 kW – Galeras ch A2 5/2.5 kW – Pasto ch A2 50/25 kW – Popayan ch A11 50/25 kW – Santa Maria ch A7 40/20 kW – Quibdo ch A13 25/12.5 kW – D. Prgr.: 20.00–21.00, 23.30–04.30.

ECUADOR

LAVOZ DE LOS ANDES–TELEVISION (Priv., non-comm., cult.) Addr. & L.P.: See Sound Broadcasting – Station: HCJB-TV ch A2 5/0.25 kW H – D. Prgr.: D exc. Mo: 00.00–03.00. News 02.30 – F.PL.: New TV tr. ch A4 educational TV.

PRIMERA TELEVISION ECUATORIANA S. A.: Addr.: Illingworth 114 y Pichincha, Guayaquil. Cable: Telecuator. Te.: 22829 – Station: HCPIE ch A4 2.8 kW – L.P.: Dir. Gen.: J. Rosenbaum – D. Prgr.: 13.30–17.00 – Publ.: Fortnightly "Teleguia".

PERU

CULTURAL

MINISTRY OF EDUCATION (Go.): Addr.: Ministerio de Educacion Publica, Direccion de Cultura, Lima. Te.: 75737 – L.P.: Dir. Gen.: R. Garrido M – Station: "Inca Garcilaso" OAD-TV ch A7 0.1/0.05 kW H – D. Prgr.: Mo, Wed, Fri: 23.00–05.00. Other W: 22.00–01.00. Sun 14.00–05.00.

COMMERCIAL:

TELEVISORA AMERICA: Addr.: Montero Rosas, Lima. Te.: 38305 – L.P.: Mgr.: N. Gronzalez. Dir. Tec.: D. Capella – Station: ch A4 30 kW (System RCA). Rel. St.: Huacho Ica ch A6 – D. Prgr.: D 17.00(Sun 19.30)–05.00 – F.PL.: st.'s in Lima ch A4 1 kW, Trujillo, Piura, Chiclayo.

TELEVISORA PANAMERICANA: Addr.: Ave. Arequipa 1110, Lima. Te.: 34240 – L.P.: Mgr.: G. Delgado. Dir. Tec.: M. Florez – Station: ch A13 4/2 kW (System Philips) – D. Prgr.: 17.00–05.00 – F.PL.: During 1962/63 st.'s in Chiclayo (ch A9), Trujillo, Chimbota (ch A9), Ica (ch A7).

TELEVISORA VICTORIA: Addr.: Av. Tacna 543, Lima. Te.: 35945 – L.P.: Mgr.: J. E. Cavero – Station: ch A2 – D. Prgr.: 23.00–05.00.

TELEVISORA EXCELSIOR: Addr.: Ave. Manco Capac, Lima – L.P.: Mgr.: A. Belmont – Station: ch A11 – D. Prgr.: to operate from March 63.

TELEVISORA EL SOL: Addr.: Jose Galvez 1040, Lima. Te.: 32905 – L.P.: Dir. Gen.: N. Gonzalez V. – Station: ch A9 10/5 kW (System RCA). Rel. st.'s: Huacho, Ica ch A7 and A11 – D. Prgr.: 23.00(Sun 22.00)–05.00.

TELEVISORA SUR PERUANA: Addr.: P.O. Box 514, Arequipa. Cable: Industrial. Te.: 3090 – L.P.: Dir. Gen.: Dr. G. Quintanilla P. Dir. Tec.: E. Tschuschke – Station: ch A2 0.5/0.25 kW H – D. Prgr.: 18.00–04.30.

Other Main Stations: Piura ch A2 8 kW. Mgr.: Balderrama. Dir. Tec.: E. Fromcke. 22.00–05.00 – Chiclayo ch A4 8 kW. Mgr.: R. Mendoza. D 21.00–05.00 – Trujillo ch A4 8 kW. D 22.00–05.00 – Arequipa ch A6 8 kW. D 20.00–05.00 – M. de Orbegora 338, Trujillo ch A7 0.58 kW. Mgr.: C. Cox Larco. Dir. Tec.: D. Teodori. D 23.00–05.00 – Prof. Sanchez Cerro 400, Piura ch A7 0.58 kW. D 23.00-05.00.

URUGUAY

ANDEBU del Uruguay (Comm.): Addr.: Enriqueta Comte and Riqué 1276, Montevideo. Cable: Telep. Te.: 29590 – L.P.: Dir. Gen.: R. Galina. Dir. Tec.: M. Giampietro. Dir. For. Rel.: G. Grille. Stations: Monte Carlo (Addr.: 18 de Julio 1855, Montevideo. Te.: 40.21.46. Cable: Montecarlotv. L.P.: Dir. Gen.: H. R. Salvo. Dir. Tec.: Eng. F. E. Elorza. D. Prgr.: W 07.03–21.00. Sun 10.30–24.00. Publ.: Correo del 4 monthly) ch E4 21.2 kW H – **SAETA**: Addr.: Avda. Uruguay 1031, Montevideo. Cable: Saeta. Te.: 9-72-80. L.P.: Dir. Gen.: R. Fontaina. Dir. Tec.: J. A. Gatti. D. Prgr.: W 21.00–03.30, Sun 12.00–16.00, 21.00–03.30. Station: ch A10 0.5 kW H. Teledoce ch A12 0.5 kW H – **SODRE** ch E5 140 kW (System G. E. other st.'s RCA). D. Prgr.: D 08.30(Sun 06.30)–21.00. Experimental st.: CXATV ch E12 08.00–08.30 – **TELEVISORA LARRANAGA S. A.** (Comm.): Addr.: Montevideo. L.P.: Pres.: G. Otero. Dir. Tec.: M. Giampietro. Station: CXA12-TV ch E12 25/12.5 kW. D. Prgr.: 08.00–21.00 –

SERVICIO OFICIAL de Difusion **RADIO ELECTRICA** (SODRE Go.) ch E6 32.5 kW. CXA-TV ch E12 100 kW under construction.

VENEZUELA

TELEVISORA NACIONAL (Go.): Addr.: Apt. 3979, Caracas. Te.: 545436 – L.P.: Dir. TV: Dr. A. Pizani Pardi. Dir. Tec.: G. Lebrun. Station: Def. 625, YVKA-TV ch A5 100/40 kW H – D. Prgr.: 21.30–04.30 – **CORPORACION VENEZOLANA DE TELEVISION S. A.** (Comm.): Addr.: Colinas de los Caobos, Avda. la Salle, La Colina. Te.: 722741. L.P.: Dir. Tec.: M. Sapkowski. Asst. Eng.: F. Merk. Stations: Caracas ch A4 70/20 kW. Picacho (Estados del Centro) ch A9 84/17 kW. Terepaima (Estados Occidentales)ch A6 64/14 kW. Maracaibo ch A4 40/20 kW – **R. CARACAS TV** (Comm.), Ed. R. Centro, Barcenas, Caracas. Te.: 418971. L.P.: Dir. Gen.: A. Espina. Dir. Tec.: J. Marcano. Stations: YVKS-TV ch A2 150/75 kW. Curimagua: ch A10 330/165 kW. Maracaibo: ch A2 100/50 kW. Carabobo: ch A7 60/30 kW. La Guaira: ch A7 10/5 kW. Barquisimeto: ch A3 20/10 kW. Puerto La Cruz: ch A7 0.2/0.1 kW. All st.'s satellite to Caracas YVKS-TV. D. Prgr.: 12.30–05.00 – **ONDAS DEL LAGO** (Comm.), Maracaibo. L.P.: Pres. Dir. Gen.: N. Vale. Dir. Tec.: I. Salcedo. Station: ch A13 2/1.5 kW. D. Prgr.: 20.30–03.30 – **R. VALENCIA TV** (Comm.), Valencia, Estado Carabobo. L.P.: Dir.: T. Gubaira. Station: ch A3 4/2 kW. D. Prgr.: 22.30–04.30.

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LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

Alg. = Algeria; Az. = Azores; Aust. = Austria; Belg. = Belgium; Bulg. = Bulgaria; C. Isl. = Canary Islands; Cyp. = Cyprus; Czecho. = Czechoslovakia; Den. = Denmark; F. = France; Faeroe. = Faeroe Islands; Finl. = Finland; G. = Germany; Gr. = Greece; Gt. Br. = Great Britain; Holl. = Holland; Hung. = Hungary; Icel. = Iceland; It. = Italy; Mon. = Monaco; Mor. = Morocco; No. = Norway; Port. = Portugal; Rum. = Rumania; REM = Red de Emisoras del Movimiento; Sp. = Spain; Sw. = Sweden; Switz. = Switzerland.

kc/s	Metres	kW	Stations
151	1987	50	**Moscow I** - USSR
—	1986	50	**Hamburg (Deutschl. funk)** - G.
155	1935	10	**Tromsø** - Norway
—	1935	150	**Brasov** - Rumania
164	1829	250/500	**Allouis** - France
173	1734	1000	**Munich (VOA)** - G.
—	1734	500	**Moscow I** - USSR
182	1648	10	**Luleå** - Sweden
—	1648	400	**R. Europe I** — Saar
—	1648	120	**R. Ankara** - Turkey
185	1622	200/1000	**Deutschlands.** - G.
191	1571	600	**Motala** - Sweden
—	1571	50	**Tbilisi** - USSR
200	1500	100	**Moscow II** - USSR
—	1500	400	**Droitwich** - Gt. Br.
209	1435	150	**Kiev I** - USSR
—	1435	100	**Reykjavik** - Icel.
218	1376	200	**Oslo** - Norway
—	1376	50	**Baku** - USSR
227	1322	500	**Warsaw I** - Poland
233	1287	500	**Luxembourg I**
236	1271	100	**Leningrad I** - USSR
245	1224	150	**Kalundborg I** - Den.
254	1181	200	**Lahti** - Finland
263	1141	150	**Moscow I** - USSR
—	1141	20/150	**R. Wolga** - (DDR)
272	1102.9	200	**CSI** - Czechoslov.
281	1068	100	**Minsk** - USSR
290	1034	0.25	**Bygland** - Norway
340	882.4	100	**Moscow II** - USSR
347	864	—	**Erivan** - USSR
365	820	20	**Moscow II** - USSR
385	779	50	**Moscow II** - USSR
400	750	50	**Minsk** - USSR
433	693	10	**Oulu** - Finland
520	577	2	**Braunschweig** - **(NDR)** - Germany
—	577	1	**Joensuu** - Finland
—	577	—	**4 low power** - G.
—	577	0.05	**2 low power** - Aust.
—	576.9	10	**Aldrans II** - Austria
—	576.9	10	**Lienz II** - Austria
—	577	0.25	**Rørås** - Norway
529	561.1	20	**Schwerin (DDR)** - G.
—	561.1	150	**Beromünster** - Switz.
539	556.5	135	**R. Kossuth** - Hung.
—	556.5	0.05	**Bayonne II** - F.
540	556	0.005	**2 low power** - Italy
548	547.4	100	**Odessa** - USSR
—	547.4	100	**Moscow III** - USSR
—	547.4	100	**Munich** (AFN) - G.
—	547.5	4	**Colomb-Bech.** - Alg.
557	539	100	**Helsinki I** - Finland
—	538.6	50	**Cairo III** - Egypt.
—	538.6	1	**Timisoara II** - Rum.
—	538.6	4	**Bucuresti** - Rum.
—	538.6	50	**M. Ceneri** - Switz.
—	538.6	5	**Greifswald (DDR)**
—	538.6	1	**Guarda** - Portugal
—	538.6	1	**Faro** - Portugal
—	539	4	**Laghouat** - Algeria
—	539	10	**Volgagrad** - USSR
566	530	100	**Athlone** - Ireland
—	530	10	**Caltanisetta I** - It.
—	530	20	**Freies Berlin** - G.
—	530	0.1/0.05	**8 low power** - Aust.
575	522	100	**Mühlacker (SDR)** - G.
—	522	100	**Riga I** - USSR
—	521.7	100	**Leipzig (DDR)** - G.
—	521.7	50/10	**Tel Aviv** - Israel
—	522	4	**Toggourt** - Algeria
584	514	1	**Paris III** - France
—	513.7	7	**Torshavn** - Faeroe.
—	513.7	200	**Madrid (RNE)** - Sp.
—	513.7	5	**Aleppo** - Syria
584	513.7	25	**Klagenfurt II** - Aus.
—	513.7	10	**Salzburg II** - Aust.
—	513.7	150	**Wien II** - Austria
—	513.7	0.05	**Mayerhofen** - Aust.
593	505.9	150	**Sundswall** - Sweden
—	505.8	100	**Frankfurt (HR)** - G.
—	505.8	20	**Meissner (HR)** - G.
—	505.8	60	**Sofia II** - Bulgaria
—	506	100	**Oujda I** - Morocco
602	498.4	20	**Karl-Marx-Stadt**, G.
—	498.4	4	**Timisoara** - Rum.
—	498.4	2	**Damascus** - Syria
—	498	100	**Lyon I** - France
605	495.9	5	**Sfax** - Tunisia
606	495	20	**Nicosia** - Cyprus
610	491.8	2	**R. Bahrain**
611	491	10	**Nürnberg-Grafenwöhr** - Germany
—	491	10	**Kaiserslaut.** - G.
—	491	140	**Sebaa-Aioun** - Mor.
—	491	1	**Hoefn** - Iceland
—	491	300	**Berlin I (DDR)** - G.
—	491	100	**Petrozavodsk**, USSR
—	491	100	**Sarajevo** - Yugosl.
620	483.9	300	**Cairo IV** - Egypt.
—	483.9	150	**Bruxelles I** - Belg.
629	477	100	**Vigra I** - Norway
—	476.9	300	**Tunis II** - Tunisia
—	476.9	25	**Aldrans I** - Austria
—	476.9	25	**Lauterach I** - Aust.
—	476.9	1	**Lienz I** - Austria
—	476.9	20	**Erfurt (DDR)** - G.
638	470.5	100	**Limassol** - Cyprus
—	470.5	20	**San Sebastian** - Sp.
—	470.2	150	**Praha** - Czechoslov.
640	468.8	5	**R. Tabriz** - Iran
647	463.6	100	**Simferopol** - USSR
—	463.5	5	**Sevilla (RNE)** - Sp.
—	464	150	**Daventry** - Gt. Br.
—	464	150	**Crowbor.**, Gt. Br.
—	464	2/4	**4 low power** - Gt.Br.
650	461.5	0.3	**Lages** - Azores
656	457.3	20	**Bolzano I** - Italy
—	457.3	80	**Firenze I** - Italy
—	457.3	80	**Napoli I** - Italy
—	457.3	35	**Torino I** - Italy
—	457.3	10	**Venezia I** - Italy
—	457.2	20	**Deutschlands.** - G.
—	457.3	150	**Murmansk** - USSR
—	457.3	100	**Tel Aviv** - Israel
660	454.5	20	**R. Kabul** - Afghan.
665	451.2	15	**Athens III** - Greece
—	451.2	100	**Cairo II** - Egypt
—	451.2	5	**Eidar** - Iceland
—	451.2	50	**Damascus** - Syria
—	451	20	**Bad Dürrheim** - G.
—	451	20	**Ravensburg (SWF)**
—	451	10	**Reutlingen (SWF)**
—	451	135	**Lisboa I** - Portugal
—	451	100	**Vilnius I** - USSR
674	445.1	10	**Bodö** - Norway
—	445.1	50	**Tjernovtsy** - USSR
—	445	150	**Marseilles** - France
—	445	0.05/0.1	**8 low power** - Aust.
677	443	20	**Jerusalem** - Jordan
680	441.2	1	**R. Rasht** - Iran
683	439	150	**Beograd** - Yugosl.
—	439	100	**Berlin/Hof (RIAS)**
684	439	100	**Madrid (RNE)** - Sp.
692	433.5	20	**Moscow II** - USSR
—	434	20	**Nicosia** - Cyprus
—	433.8	200	**Deutschlands.** - G.
—	434	2	**Cromer** - Gt. Br.
—	434	150	**Moors. Edge**, Gt. Br.
—	434	2	**Whitehaven** - Gt. Br.
701	427.8	2	**Norden (NDR)** - G.
701	427.8	2	**Lingen (NDR)** - G.
—	428	5	**Aachen (WDR)** - G.
—	428	2	**Herford (WDR)** - G.
—	428	150	**Istanbul** - Turkey
—	428	140	**Sebaa-Aioun** - Mor.
—	428	20	**Finmark** - Norway
—	427.2	100	**Bratislava** - Czecho.
710	422	150	**Rennes I** - France
—	422	150	**Tallinn** - USSR
—	422	150	**Yossovka** - USSR
—	422	1	**Jerusalem** - Israel
—	417.2	2	**Aleppo** - Syria
719	417.2	135	**R. Free Europe** - G.
—	417.2	100	**BBC** - Cyprus
—	417.2	25	**Norte I** - Portugal
—	417.2	150	**Östersund** - Sweden
723	414	50	**Jeddah** - S. Arabia
728	412	25	**Klagenfurt I** - Aust.
—	412	150	**Athens I** - Greece
—	412.1	220	**Deutschlands.** - G.
737	407.1	40	**Hof (RIAS)** - G.
—	407.1	200	**Tel Aviv** - Israel
—	407.1	5	**Akureyri** - Iceland
—	407.1	300	**Poznan** - Poland
—	407.1	20	**Barcelona** - Spain
—	407.1	20	**Moscow II** - USSR
746	402	20	**Aleppo** - Syria
—	402	120	**Hilversum I** - Holl.
—	402	1	**Tlemcen** - Algeria
755	397.3	20	**Kuopio** - Finland
—	397.3	50	**Timisoara I** - Rum.
—	397.3	135	**Lisboa II** - Portugal
—	397.3	100	**Königslutter (D.funk)** - G.
—	397.3	20	**Ravensburg (D.funk)** - G.
—	397.3	2	**Siegen (WDR)** - G.
764	392.6	150	**Sottens** - Switzerl.
—	392.6	10	**Odessa** - USSR
773	388.1	150	**Stockholm** - Sweden
—	388.1	2	**Malmberget** - Sw.
—	388.1	20	**Valencia (RNE)**, Sp.
—	388.1	5	**Voronej** - USSR
—	388.1	50	**Cairo I** - Egypt
—	388.1	1	**Salzburg I** - Aust.
—	388.1	0.1/0.05	**6 low power** - Aust.
777	387	100	**Zahedan** - Iran
782	383.6	250	**Deutschlands.** - G.
—	383.6	100	**R. Clube Portuguese**
—	383.6	100	**Kiev II** - USSR
—	383.6	2	**Vatican Radio**
785	382	25	**Aden** - Aden
791	379.2	100	**Limoges I** - France
—	379.2	50	**Thessaloniki (VOA)**
800	375	100	**München (BR)** - G.
—	375	100	**Leningrad** - USSR
—	375	5	**R. Sevilla** - Spain
—	375	100	**Amman** - Jordan
809	371	100	**Burghead** - Gt. Br.
—	371	5	**Redmoss** - Gt. Br.
—	371	2	**Dumfries** - Gt. Br.
—	371	100	**Westerglen** - Gt. Br.
—	370.8	135	**Skopje** - Yugosl.
—	370.8	20	**R. Madrid** - Spain
—	370.8	—	**Kuibychev** - USSR
818	366.7	10	**Trieste I** - Italy
—	366.7	300	**Cairo V** - Egypt
—	366.7	300	**Warszawa II** - Pol.
—	367	1	**Casablanca I** - Mor.
—	367	140	**Andorradio**
827	363	100	**Sofia I** - Bulgaria
—	363	20	**Tetuan** - Morocco
—	363	40	**Freiburg (SWF)** - G.
—	363	0.5/1.5	**4 low p. (SWF)** - G.
—	363	3	**Kaisersl. (SWF)** - G.
—	363	10	**R. Barcelona** - Spain

kc/s	Metres	kW	Stations
827	363	10	**Gorki II** - USSR
—	363	20	**Moscow II** - USSR
833	360	1	**Benghazi** - Libya
836	359	10	**Ylivieska** - Finland
—	359	150	**Nancy I** - France
—	359	2	**Huelva (RNE)** - Sp.
—	359	4	**Beyrouth I** - Leb.
—	359	20	**Kharkov** - USSR
845	355	0.2	**Helsinki III** - Finl.
—	355	150	**Roma II** - Italy
—	355	1	**Jerusalem** - Israel
850	352.9	0.025	**Adana** - Turkey
—	352.9	2	**R. Huelva** - Spain
854	351.3	150	**Bucuresti I** - Rum.
—	351.3	15	**R. Madrid EAJ2**
—	351	20	**Berlin (RIAS)** - G.
863	348	150	**Paris I** - France
—	348	100	**Erivan** - USSR
—	347.5	10	**Damascus** - Syria
872	344	150	**Frankfurt AFN** - G.
—	344	30	**Budapest II** - Hung.
—	344	30	**R. Zaragoza** - Sp.
—	344	150	**Moscow III** - USSR
881	340.5	20	**Titograd** - Yugosl.
—	340.5	20	**Stavropol** - USSR
—	340.5	100	**Berlin (DDR)** - G.
—	341	8	**Penmon** - Gt. Br.
—	341	5	**Towyn** - Gt. Br.
—	341	2	**Wrexham** - Gt. Br.
--	341	100	**Washford** - Gt. Br.
890	337.1	200/100	**Alger I** - Algeria
—	337.1	15	**Linz I** - Austria
—	337.1	20	**Bergen I** - Norway
—	337.1	20	**Kristianssand** - No.
—	337.1	20	**Tröndelag** - Norway
—	337.1	20	**Uzjgorod** - USSR
895	335	100	**R. Teheran** - Iran
899	333.7	150	**Milano I** - Italy
904	331.9	100	**Deutschlands.** - G.
908	330	140	**Brookm. Park**, G.B.
—	330	200	**R. Baghdad** - Iraq
—	330	5	**Miercurea** - Rumän.
—	330	—	**Volgagrad** - USSR
912	328.9	20	**Reichenbach** - G.
915	326	2	**Paphos** - Cyprus
917	327.2	5	**Tetuan** - Morocco
—	327.2	1	**Rabat I** - Morocco
—	327.2	135	**Ljubljana I** - Yugos.
920	326	1	**R. Sanandaj** - Iran
926	324	150	**Brussels II** - Belg.
—	324	10	**Nis** - Yugoslavia
—	324	10	**Cairo VI** - Egypt
930	323	3.5	**Aden** - Aden
935	321	27	**Rabat** - Morocco
—	321	300	**Lvov** - USSR
—	321	10	**Berlin (AFN)** - G.
944	318	100	**Toulouse I** - France
—	317.8	20	**Rostov** - USSR
953	314.6	20	**R. Intercont.** - Sp.
—	314.6	100/15	**Praha** - Czechoslov.
962	312	100	**Turku I** - Finland
—	312	20/120	**Tunis I** - Tunisia
—	312	10	**Paris IV** - France
963	311.6	2	**Istanbul** - Turkey
971	309	5	**Göttingen (NDR)** -
—	309	100	**Hamburg (NDR)** -
—	309	100	**Langenberg (WDR)**
—	309	150	**Smolensk** - USSR
—	309	20	**La Coruña** - Spain
980	306.1	200	**Alger II** - Algeria
980	306.1	2	**Assiout** - Egypt
—	306.1	2	**Trieste A** - Italy
—	306.1	150	**Göteborg** - Sweden
985	302	100	**Kermanshah** - Iran
989	303.3	300/200	**Berlin RIAS** - G.
—	303.3	8	**R. Malaga** - Spain
—	303.3	100	**Beyrouth** - Lebanon
990	303	1	**Tripoli** - Libya
998	300.6	10	**Heidelberg (SDR)** -
—	300.6	0.2	**Buchen (SDR)** - G.
—	300.6	140	**R. Andorra**
—	300.6	150	**Kishinjov** - USSR
1000	300	0.5	**R. Rezaieh** - Iran
1005	299.0	6	**Malaga (RNE)** - Sp.
1007	298	120	**Hilversum II** - Holl.
—	298	50	**Corfu** - Greece
1016	295	120	**Rheinsender (SWF)**
1016	295	0.05	**Batna** - Algeria
—	295	1	**Tanger** - Morocco
—	295	20	**Baku** - USSR
1025	292.7	100	**Dobl** - Austria
—	292.7	100	**Kronstorf** - Austria
—	292.7	10	**Lauterach II** - Aust.
—	292.7	5	**Mariapfarr II** - Aust.
—	292.7	0.05	**3 low power** - Austr.
—	292.7	0.5	**Haifa** - Israel
—	292.7	5	**R. S. Sebastian** - Sp.
—	292.7	1	**Safi** - Morocco
1033	290.4	2	**Izmir** - Turkey
1034	290.2	0.25	**Ansbach/Bad Kissingen (AFN)** - G.
—	290.1	20	**Milano II** - Italy
—	290.1	25	**Venezia II** - Italy
—	290.1	10	**Genova II** - Italy
—	290.1	5	**San Remo II** - Italy
—	290.1	5	**Pescara II** - Italy
—	290.1	25	**Napoli II** - Italy
—	290.1	100	**Tallinn I** - USSR
—	290.1	25	**Parede** - Portugal
1043	287.6	5	**Thessaloniki** - Gr.
—	287.6	240	**Dresden (DDR)** - G.
—	287	1	**Oujda II** - Morocco
—	287	100	**Tbilisi** - USSR
1052	285.3	0.05	**2 low power** - Aust.
—	285.3	2	**Barnstaple** - Gt. Br.
—	285.3	2	**Leon (EOP25)** - Sp.
—	285.3	120	**Start Point** - Gt. Br.
—	285.3	20	**Bacau** - Rum.
—	285.3	50	**R. Tripoli** - Libya
—	285.1	20	**Suhl (DDR)** - G.
1060	285	1	**R. Shiraz** - Iran
1061	283	25	**Norte II** - Portugal
—	283	60	**Kalundborg II**, Den.
—	283	20	**Cagliari I** - Italy
—	283	1	**Livorno I** - Italy
1063	282.2	2	**Ankara** - Turkey
1070	280	100	**Paris II** - France
—	280	20	**Marseille II** - France
—	280	20	**Bordeaux II** - Fr.
1079	278	2	**Minia** - Egypt
—	278	2	**Luxor** - Egypt
—	278	2	**Bremerhafen** - G.
—	278	60	**Katowice** - Poland
—	278	20	**Plauen (DDR)** - G.
—	278	0.2/2	**7 low power** - Spain
—	278	5	**Voz de Cataluna**, Sp.
—	278	5	**Voz de Levante** - Sp.
—	278	5	**La Voz de Vigo** - Sp.
—	278	5	**Voz de Asturias** - Sp.
—	278	5	**Voz de Navarra** - Sp.
1088	276	150	**Droitwich** - Gt. Br.
—	276	7.5	**Postwick** - Gt. Br.
—	276	50	**Tirana** - Albania
1094	274	2	**R. Panades** - Spain
1097	273.5	150	**Bratislava** - Czecho.
—	273.5	1/2	**16 low power** - Spain
—	273.5	1	**Haifa** - Israel
1100	272	1	**R. Mashhad** - Iran
1106	271.2	100	**Stuttgart (AFN)** - G.
—	271.2	0.04/2	**17 low power** - Spain
—	271.2	100	**Vilnius II** - USSR
1115	269.1	50	**Bologna II** - Italy
—	269.1	5	**Messina II** - Italy
—	269.1	2	**Trieste II** - Italy
—	269.1	1	**Aosta II** - Italy
—	269.1	40	**Bari II** - Italy
—	269.1	10	**Pisa II** - Italy
—	269.1	—	**Berlin (DDR)**
—	269.1	0.25/0.04	**4 low power** - No.
—	269.1	1	**Bergen II** - Norway
—	269.1	1	**Namsos** - Norway
—	269.1	1	**Notodden** - Norway
—	269.1	1	**Vesterålen** - Norway
1120	267	0.3	**R. Cazorla** - Spain
1124	266.9	3	**Barcelona** - Spain
—	266.9	10	**Bruxelles IV** - Belg.
—	266.9	5	**Varna** - Bulgaria
—	266.9	0.1/0.5	**13 low power** - Aust.
—	266.9	20	**Leningrad** - USSR
1130	265	10/100	**R. Kuwait** - Kuwait
1133	264.8	5	**Bilbao (EAJ28)** - Sp.
—	264.8	135	**Zagreb** - Yugoslavia
—	264.8	15	**Rijeka** - Yugoslavia
1133	264.8	2	**Adana** - Turkey
1142	262.7	20	**Constantine I** - Alg.
—	262.7	40	**Oran I** - Algeria
—	262.7	0.05	**5 low power** - Aust.
—	262.7	0.25	**4 low power (AFN)**
—	262.7	5	**Bremerhaven (AFN)**
—	262.7	1	**Florina** - Greece
—	262.7	2	**Sohag** - Egypt
—	262.7	20	**Kaliningrad** - USSR
—	262.7	1/2	**16 low power** - Spain
1151	261	100	**Lisnagarvey** - Gt.Br.
—	261	2/0.25	**2 low power** - Gt.Br.
—	261	100	**Stagshaw** - Gt. Br.
—	260.9	50	**Cluij** - Rum.
1160	259	150	**Strasbourg I** - Fr.
1169	256.6	10	**Porto** - Port.
—	256.6	6	**Koper** - Yugoslavia
—	256.6	5	**Ulm (SDR)** - G.
—	256.6	10	**Heilbronn (SDR)**-G.
—	256.6	1	**Thessaloniki** Greece
—	256.6	150	**Kiev** - USSR
—	256.6	1	**Jerusalem** - Israel
1178	254.7	100	**Hörby** - Sweden
—	254.7	2	**Assouan** - Egypt
—	254.7	2	**Cuenca (RNE)** - Sp.
—	254.7	10	**BBC** - Malta
1187	252.7	1	**Casablanca II** - Mor.
—	252.7	2/0.1	**24 low power** - Spain
—	252.7	135	**Szolnoc I** - Hungary
1196	251	150	**Munich (VOA)** - G.
—	251	1	**Marrakech** - Mor.
1205	249	100	**Bordeaux I** - F.
—	249	10	**Haifa** - Israel
—	249	1	**Alcira (EOP56)** - Sp.
1214	247	50	**Brookmans Park** -
—	247	20	**Burghead** - Gt. Br.
—	247	10	**Lisnagarvey** - Gt.Br.
—	247	50	**Moorside Edge** -
—	247	50	**Westerglen** - Gt. Br.
—	247	2/0.25	**5 low power** - Gt. Br.
—	247	20	**Tallinn II** - USSR
—	247	20	**Kursk** - USSR
1223	245.3	20	**La Voz de Madrid**
—	245.3	20	**Stara Zagora** - Bul.
—	245.3	3	**R. Alcoy** - Sp.
—	245.3	100	**Falun** - Sweden
1232	243.5	50	**Tanger** - Morocco
—	243.5	100	**Kosice I** - Czechosl.
—	243.5	2	**Ostrava** - Czechosl.
—	243.5	2	**Hradel Kralove** - Cz.
1241	242	25	**Vaasa** - Finland
—	242	20	**Lille II** - France
—	242	20	**Lyon II** - France
—	242	20	**Nancy II** - France
—	242	20	**Nice III** - France
—	242	20	**Brest I** - France
—	242	24	**Rennes II** - France
—	242	100	**Tiraspol** - USSR
1248	240	1.2	**R. Juventud** - C. Isl.
—	240	1.5	**La Voz de Leon** - Sp.
1250	240	5	**Dublin, Cork** - Eire
—	240	5	**Barcelona** - Spain
—	240	135	**Balatonszab.**, Hung.
—	240	2/0.2	**21 low power** - Spain
1258	238	0.35	**R. Asturias** - Spain
1259	238.3	150	**Courier (VOA)** - Gr.
—	238.3	5	**R. Valencia** - Sp.
—	238.3	20	**Zielona Gora** - Pol.
—	238.3	50	**Wroclaw** - Poland
1268	236.6	100	**Novi Sad** - Yugosl.
—	236.6	5	**R. Asturias** - Spain
1277	234.9	2	**Alexandria** - Egypt
—	234.9	100	**Strasbourg II** - F.
1279	234	1	**Eida (EOP32)** - Sp.
1286	233	100	**CS II** - Czechoslov.
—	233	2	**Lisboa** - Port.
1295	231.7	2	**R. Coruña** - Spain
—	231.7	1	**Rabat I** - Morocco
—	231.7	150	**Crowbor.** - Gt. Br.
1304	230	20	**Constantine II** - Alg.
—	230	40	**Oran II** - Algeria
—	230	1/2	**10 low power AFN**
—	230	80	**Szczecin** - Poland
—	230	30	**Gdansk** - Poland
1313	228.5	100	**Stavanger** - No.
—	228.5	0.5	**Las Palmas** - C. Isl.
—	228.5	0.1/0.05	**10 low power** - Aust.

kc/s	Metres	kW	Stations
1313	228.5	2	**Constanza** - Rum.
—	228.5	10	**Dayr Az Zur** - Syria
—	228.5	20	**Athens (FBS)** - Gr.
—	228.5	1.5	**R. Miramar** - Spain
1322	226.9	150	**Leipzig (DDR)** - G.
—	226.9	0.4	**R. Ribatejo** - Port.
—	226.9	100	**Kharkov II** - USSR
—	226.9	1/2	**22 low power** - Sp.
1325	226.4	100	**R. Tehran** - Iran
1331	225.4	1/2	**4 low power** - Italy
—	225.4	80	**Roma I** - Italy
—	225.4	50	**Genova I** - Italy
—	225.4	25	**Bologna I** - Italy
—	225.4	25	**Pescara I** - Italy
—	225.4	20	**Bari I** - Italy
—	225.4	12	**Palermo I** - Italy
—	225.4	2	**R. Salamanca** - Sp.
1332	225.2	20	**Tallinn** - Estonia
1336	226.6	1.5	**Haifa** - Israel
1338	224	100	**R. Iran** - Iran
1340	223.8	25	**Nyiregyháza,** Hung.
—	223.8	25	**Szombathely,** Hung.
—	223.8	15	**Pécs** - Hungary
1345	223.2	10	**R. Kuwait** - Kuwait
—	223.2	2	**Murcia (EOP12),** Sp.
1349	222.4	10	**Nantes I** - France
—	222.4	20	**Clermont** - France
—	222.4	20	**Limoges II** - France
—	222.4	20	**Grenoble** - France
—	224.4	20	**Toulouse II** - France
—	222.4	0.4	**2 low power** - Hung.
—	224.4	20	**Valmiera** - USSR
—	222.4	20	**Kuldiga** - USSR
—	224.4	20	**Madona** - USSR
1355	221.3	0.2	**Kavalla** - Greece
1358	221	0.1/1	**2 low power** - Port.
—	221	20	**Bremen** - Germany
—	221	0.2	**Korca** - Albania
—	221	0.09/2	**23 low power** - Spain
—	221	0.05	**Haifa** - Israel
—	220.9	50	**Berlin (DDR)** - G.
1367	219.5	0.1/2	**10 low power** - Italy
—	219.5	25	**Venezia III** - Italy
—	219.5	12	**Napoli III** - Italy
—	219.5	10	**Milano III** - Italy
—	219.5	10	**Genova III** - Italy
—	219.5	5	**Roma III** - Italy
—	219.5	5	**Torino III** - Italy
—	219.5	2	**2 low power** - Spain
—	219.5	2	**R Antequera** - Spain
—	219.5	0.5	**4 low power** - Switz.
—	219.8	30	**Bialystok** - Poland
—	219.8	30	**Lublin** - Poland
—	219.5	10	**Porto** - Portugal
1375	218	2	**R. Zamora** - Spain
1376	218	150	**Lille I** - France
1385	217	150	**Kaunas** - USSR
—	217	50	**Athens II** - Greece
—	217	0.04/2	**11 low power** - Spain
—	217	5	**V. de Guipuzcoa,** Sp.
1390	215.8	5	**R. Badajoz** - Spain
—	215.8	100	**R. Ahwaz** - Iran
1394	215	1	**Tripoli (FBS)** - Lib.
—	215.2	25	**Graz** - Austria
—	215.2	0.05/0.2	**4 low power** - Aust.
—	215.2	0.25	**Bitburg AFN** - G.
—	215.2	0.25/0.15	**19 low power** - Sw.
—	215.2	1	**Angra** - Azores
—	215.2	2	**R. Almeria** - Spain
1403	213.8	0.7/2	**2 low power** - Spain
—	213.8	10	**Montpellier I** - F.
—	213.8	20	**Rouen** - France
—	213.8	20	**Nice II** - France
—	213.8	20	**Brest II** - France
—	213.8	5	**Comotini** - Gr.
—	213.8	20	**Pau** - France
—	213.8	20	**Tallinn** - USSR
1412	212.4	3	**B. Mergenthein** - G.
—	212.5	2	**2 low power** - Sp.
—	212	6	**Maribor** - Yugosl.
—	212	2	**Osijek** - Yugosl.
—	212	2	**Helsinki II** - Finl.
—	212	0.4	**Turku II** - Finland
—	212	20	**Pristina** - Yugosl.
—	212	0.4	**Club Tenerife** - C.Is.
—	212	0.02	**2 low power** - Icel.
1420	211	1	**R. Almeria** - Spain
1421	211.2	40	**Alger III** - Algeria
—	211.1	5	**Tjernigov** - USSR
—	211.1	100	**R. Saarbrücken** - G.
—	211.1	1	**Tampere** - Finland
1425	221.1	7.5	**Nicosia** - Cyprus
—	221.1	1	**Malta (FBS)**
—	210	5	**Baneasa** - Rum.
1430	210	10	**Copenhagen II** - Denmark
—	210	5	**R. Mallorca** - Spain
—	210	70	**Skive** - Denmark
1439	208	350	**Luxembourg II**
—	208	7.5	**Nicosia** - Cyprus
1440	208.3	1	**R. Isfahan** - Iran
1448	207.2	20	**Torino II** - Italy
—	207.2	12	**Palermo II** - Italy
—	207.2	5	**Ancona II** - Italy
—	207.2	5	**Catania II** - Italy
—	207.2	5	**Firenze II** - Italy
—	207.2	5	**Sassari II** - Italy
—	207.2	0.25/2	**28 low power** - It.
—	207.2	0.2/2	**5 low power** - Spain
—	207.2	0.15/2	**12 low power** - Sw.
—	207.2	1	**Coimbra** - Port.
1450	207	2	**R. Jaen** - Spain
1457	206	0.05	**3 low power** - Aust.
—	206	2	**Redruth** - Gt. Br.
—	206	20	**Clevedon** - Gt. Br.
—	206	10	**Bartley** - Gt. Br.
—	206	2	**Brighton** - Gt. Br.
—	206	1	**Folkestone** - Gt. Br.
—	206	2	**Bexhill** - Gt. Br.
—	205.9	20	**Craiova** - Rumania
1466	205	400	**Monte Carlo** - Mon.
—	204.6	0.25/1	**7 low power** - Nor.
1467	205	1	**Gorgan** - Iran
1475	203.4	2	**2 low power** - Spain
—	203	150	**Wien I** - Austria
1480	202.7	0.04/2	**11 low power** - Spain
—	202.7	20	**R. Gredos** - Spain
1484	202.2	0.2	**St. Pölten** - Aust.
—	202.2	0.25	**Bone** - Algeria
—	202.2	5	**R. Atlantico** - C. Isl.
—	202.2	2	**Copenhagen I** - Den.
—	202.2	0.25	**Ålborg** - Denmark
—	202.2	0.25	**Tønder** - Denmark
—	202.2	0.5	**Casablanca** - Mor.
—	202.2	1	**Pietarsaari** - Finl.
—	202.2	1	**Pori** - Finland
—	202.2	0.2	**Tammisaari** - Finl.
—	202.2	0.05/1	**9 low power** - F.
—	202.2	1	**Poitiers** - France
—	202.2	0.5/1	**R. Gibraltar**
—	202.2	1	**2 low power** - Rum.
—	202.2	0.1	**Portalegre** - Port.
—	202.2	2	**Barrow** - Gt. Br.
—	202.2	2	**Ramsgate** - Gt. Br.
—	202.2	1	**Volos** - Greece
—	202.2	5	**Freies Berlin** - G.
—	202.2	0.2	**14 low power** - G.
—	202.2	0.25	**Keflavik** - Iceland
—	202.2	0.02	**2 low power** - Icel.
—	202.2	2/0.1	**13 low power** - It.
—	202.2	10	**Benghazi** - Libya
—	202.2	1	**R. Madeira** -
—	202.2	0.25	**P. Lyautey** - Mor.
—	202.2	0.25/1	**5 low power** - No.
—	202.2	8	**Lodz** - Poland
—	202.2	1	**2 low power** - Pol.
—	202.2	1	**2 low power** - Germ.
—	202	0.5	**Limassol** - Cyprus
—	202.2	5	**Bruxelles IV (F)** -
—	202.2	0.5	**Bruxelles III (Fl.)** - Belgium
—	202.2	0.5/2	**17 low p.** - Yugosl.
—	202.2	2	**2 low power** - Spain
—	202.2	2	**8 low power** - Czech.
—	202.2	2	**Pavlovo** - Bulgaria
1487	202.1	2	**R. Rioga** - Spain
—	202.1	3	**R. Lugo** - Spain
1490	201.1	0.8	**R. Alcoy** - Spain
1493	201	0.2/2	**12 low power** - Spain
—	201	4	**Bayonne** - France
—	201	0.05/1	**7 low power** - **France**
—	201	20	**Gomel** - USSR
—	201	5	**Rhodos** - Greece
—	201	0.05	**8 low power** - Aust.
1495	201	0.2	**R. Cadiz** - Spain
1500	200	0.25	**AFRS** - Azores
—	202	0.2/0.5	**2 low power** - Spain
1502	199.7	60	**Krakow** - Poland
—	200	2	**3 low power** - Spain
—	199.7	30	**Rzeszow** - Poland
—	199.7	0.25	**5 low power** - Germ.
—	199.7	0.8	**Münster(WDR)** - G.
1510	198.5	0.02	**Eskiljfjördur** - Icel.
1511	198.4	2	**R. Murcia** - Spain
—	198.4	20	**Brussels III** - Belg.
—	198.4	0.2	**Patras** - Greece
—	198.4	1.5	**R. Algeciras** - Spain
—	198.4	5	**Chania** - Greece
1519	197.5	0.2	**R. Elche** - Spain
1520	197.4	3/30	**6 stations** - Czech.
—	197.4	0.02	**Reydarfjördur** - Icel.
1529	196.2	0.075	**Porjus** - Sweden
—	196.2	120	**Vatican Radio**
1538	195	300	**Mainflingen** - G.
1545	194.2	0.02	**Stödvarfjördur** - Iceland
1546	194	0.25/1	**13 synchr.** - Gt. Br.
—	194	5	**Vinnitsa** - USSR
—	194	5	**Seelow (DDR)** - G.
—	194	0.1/0.05	**2 low power** - Aust.
1554	193.1	60	**Nice I** - France
—	293.1	20	**Baranovitji** - USSR
1562	192.1	1	**Covilha** - Portugal
—	192.1	1.25	**Amalias** - Greece
—	192.1	2/0.06	**14 low power** - Sw.
—	192.1	15	**R. Veronica** - Intern. W.
1570	191.1	10	**Flensburg** - Germ.
—	191.1	5	**Michelet** - Algeria
—	191.1	5	**R. Tarragona** - Sp.
—	191.1	20	**Bernburg** - Germ.
—	191.1	0.25	**Heraklion** - Greece
1571	191	1	**Santa Maria** - Azores
1578	190.1	2/0.1	**20 low power** - Italy
—	190.7	10	**Em. de Norte Reunidos** - Portugal
—	191.1	10	**Frederiksstad** - Nor.
—	191.1	1.3	**Nordkapp** - Norway
1586	189.1	5	**Kiel (NDR)** - G.
—	189.1	5	**Osnabrück (NDR)** - Germany
—	189	5	**Bonn (WDR)** - G.
—	189	3	**Kleve (WDR)** - G.
—	189	40	**Hannover (NDR)** -
—	189	40	**Oldenburg (NDR)** -
1594	188.2	15	**Miskolc** - Hung.
—	188.2	0.4	**Magyaróvár** - Hung.
—	188.2	15	**Balatonszabadi** - Hungary
—	188	2	**Esbjerg** - Denmark
—	188	0.05/1	**4 low power** - France
—	188	7.5	**Hengelo** - Holl.
—	188	7.5	**Hoogezand** - Holl.
—	188	7.5	**Hulsberg** - Holl.
—	188	1	**Opole** - Poland
—	188	1	**Koszalin** - Poland
—	188	10	**Lisboa** - Portugal
—	188	0.25	**3 AFRS** - Morocco
—	188	0.3	**Funchal** - Madeira
—	188	2/0.1	**8 low power** - It.
—	188	0.2/0.075	**7 low power** - Sw.
—	188	0.05	**3 low power** - Aust.
1602	187	20/40	**Nürnberg I (BR)** -
—	187	20	**Land/Isar (BR)** - G.
—	187	20	**Kirchheim (BR)** - G.
—	187	1	**3 low power (BR)** -
1607	186	0.9	**R. Tortosa** - Spain

The Editor of the *World Radio Television Handbook* seeks information from all stations engaged in broadcasting and interested in international broadcasting and publishes the information as communicated to him by the stations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply this information, or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

SHORT WAVE STATIONS OF THE WORLD

Moscow frequencies are omitted from the list as they are changed very often. All the Moscow frequencies reported are shown in the USSR-text. –*Standard Frequency Station **Time Signal Station. Br.=Brazil, Cl.=Cultura, Col.=Colombia, Czecho.=Czechoslovakia, Ger.=Germany, Guat.=Guatemala, Hon.=Honduras, Isl.=Island, Venez.=Venezuela.

kc	m	kW	Call	Stations & countries	Rem.
2270	132.1			R. Educ. Limeira, Brazil	
2306	130.5	20		Paradys, So. Africa	
2326	129.5	20		Paradys, So. Africa	
2330	128.7	0.3	YDI	Djember, Indonesia	
	128.7	1	YDM6	Sibolga, Indonesia	
2346	128.2	20		Paradys, So. Africa	
2350	127.6	1	YDW	Pontianak, Indonesia	
	127.6	1	YDJ3	Jogjakarta, Indonesia	
	127.6			Shantung, China	
	127.66			R. Amazonas, Brazil	
2360	127.1	1	YVQG	R. Carupano, Venezuela	
	127.1	0.25		R.Cultura do Nordeste, Brazil	
	127.1	0.25		R.dif. Parintins, Brazil	
2370	126.6	1	YDI3	Surabaja, Indonesia	
	126.6		YVQP	R. Puerto La Cruz, Venezuela	
2380	126.0	0.35	XESE	Mexico City, Mexico	
2390	125.5	0.1	YDN	Kotaradja, Indonesia	
	125.5	0.3	YDA6	Tjirebon, Indonesia	
	125.5	0.5	ZYV71	R. Mundo Melhor, Brazil	
2400	125.0	1	YDG2	Surakarta, Indonesia	
2405	124.7	0.3		Seoul (VUNC), Korea	
2410	124.1	1		R. Sirena, Brazil	
	124.1	0.25	4VU	R. Lumiere, Haiti	
2420	123.9	0.25	YDA2	Bandung, Indonesia	
	123.9	8		R. Martinique, Martinique	
	123.9	1	YDU7	Denpassar, Indonesia	
	123.9	0.5	ZYW32	R. Carajá (de) Anapolis, Br.	
	123.9	0.5		R. São Carlos, Brazil	
	123.9	0.25		R.dif. Carolina, Brazil	
2425	124.6	2.5		Gwelo, Rhodesia	
2430	123.5	1	YDK2	Palembang, Indonesia	
2450	122.5	0.5	ZYR231	Cultura de Aracatuba, Br.	
	122.5	0.25		R.St. 4VEH, Haiti	
	122.5		YVOX	R. Los Llanos, Venezuela	
2460	121.9	1	YDB	Djakarta, Indonesia	
	121.9	1	YDZ	Ternate, Indonesia	
	121.9	0.5	ZYR99	R. Cacique, Brazil	
2470	121.5	0.3	YVNI	R. Carora, Venezuela	
2475	121.2			Chekiang, China	
2480	120.9	1	YDL2	Padang, Indonesia	
	120.9		YVPD	La Voz de Avila, Venezuela	
2490	120.5	1	YDH	Semarang, Indonesia	
	120.5		YVOO	R. Valles del Tuy, Venezuela	
	120.5	0.3	YDQ4	Makassar, Indonesia	
*2500	120	0.5	MSF	Teddington, Gt. Britain	
*	120	1	WWV	Lanham, USA	
*	120	2	JJY	Tokyo, Japan	
*	120	1	OMA	Praha, Czechoslovakia	
*	120	0.3	ZLFS	Lower Hutt, New Zealand	
*	120	0.25	FFH	Bagneux, France	
2510	119.5	10	HLK50	Seoul, Korea	
2850	105.3			Pyongyang, Korea	
*3170	94.06	8	OLB5	Praha, Czechoslovakia	
3202	93.69	2		Bangkok, Thailand	
3204	93.64	5		Ibadan, Nigeria	
3205	93.60	10	YDA	Bandung, Indonesia	
	93.60	10		AIR Lucknow, India	
	93.60	0.5	HI7U	Broadc. Tropical, Dom.Rep.	
3214	93.34	1	YDS	Menado, Indonesia	
3215	93.30	1/50		Taipei (BCC), Taiwan	
3218	93.23	7.5	CR7BM	R. Clube de Mozambique	
3223	93.09	1	YDX	Mataram, Indonesia	
	93.09	2.5		AIR, Simla, India	
3225	93.05	0.5		ELWA, Liberia	
	93.05	1	HI3B	R. Libertad, Dominican Rep	
3230	93.00	2	OAX2C	R. Trujillo, Peru	
	93.00	0.4	OBX7D	R. El Sol, Peru	
3232	92.82	4		Tananarive, Malgache Rep.	
3235	92.74	10		R. Kaduna, Nigeria	
	92,74	10		AIR, Gauhati, India	
3237	92.66	1	YDM7	Sibolga, Indonesia	
3240	92.59	1	OBX4U	R. America, Peru	
	92.59	50		Baghdad, Iraq	
3241	92.56	10	YDR3	Ambon, Indonesia	
3245	92.45	1	YVKT	R. Libertador, Venezuela	
	92.44	0.5	HI1Z	Broadc. Nacional, Domin. R.	
	92.44	0.25	HCLM3	Voz de Pasaje, Ecuador	
3250	92.31	10	HJGO	R. Sutatenza, Colombia	
	92.31	20		Paradys, So. Africa	
	92.31	10	YDO	Bandjarmasin, Indonesia	
	92.31	5		R. Clube de Mozambique	

kc	m	kW	Call	Stations & countries	Rem.
3250	92.31	0.4	OAZ4G	R. La Oroya, Peru	
3251	92.28	5		Dar-es-Salaam, Tanganyika	
3255	92.15	0.5	YVQL	La Voz del Tigre, Venezuela	
	92.15	0.3		Beira, Mozambique	
	92.15	0.5	ZYR62	R. Clube de Marilia, Brazil	
	92.15	10	ELBC	Liberian Br.Corp., Liberia	
3259	92.05	0.3	YDV	Kupang, Indonesia	
3260	92.02			Kweichow, China	
3265	91.87	1	YVOC	Ecos del Torbes, Venezuela	
	91.87	2	ZFY	R. Demarara, Br. Guiana	
	91.87	1	HIRM	R. Sol, Dominican Rep.	
	91.87	4	ZYR79	R. Ribeirão Preto, Brazil	
	91.87	1	ZYK21	R. Tamandaré, Brazil	
3268	91.78	1		R. Timor, Timor	
3275	91.60	1	YVMG	R. Mara, Venezuela	
	91.60	1	ZYR31	Bauru R. Clube, Brazil	
3277	91.55	1	YDD	Djakarta, Indonesia	
	91.55	1/20		R. Kashmir, India	
	91.55	0.25		Port Vila, New Hebrides	
3280	91.40	5		Grenada, Windw. Isl.	
	91.40	1	OBX1E	R. Chulucanas, Peru	
3285	91.32	1	HI7SD	R. Santo Domingo, Dom. R.	
	91.32	1	ZYR89	R. Aparecida, Brazil	
	91.32	1	YVLE	R. Puerto Cabello, Venez.	
3286	91.26	0.3	YDG	Madiun, Indonesia	
	91.26	10	VRH8	Suva, Fiji Isl.	
	91.26	2	DUB4	Philipp. Br., Philipp.	
3288	91.24	4		Tananarive, Malgache Rep.	
3290	91.90	25		R. Nacional, Colombia	
3295	91.00	1	YDY	Samarinda, Indonesia	
	91.00	10/100	VUD	AIR, Delhi, India	
	91.00	2.5		Lusaka, Rhodesia	
	91.00	0.7	YVOG	R. Trujillo, Venezuela	
	91.00	10/100	VUB	AIR, Bombay, India	
3300	90.85	5		Belize, Honduras (Br.)	
3301	90.88	7.5	CR7AB	R. Clube de Mozambique	
3305	90.77	1	DZCA	NCDA, Philipp.	
	90.77	3	YVKX	La Voz de la Patria, Venez.	
	90.77	1	HI2N	R. HIN, Dominican Rep.	
	90.77	1	ZYH31	R. Educ. do Cariri, Brazil	
	90.77	0.25/10	VUC	AIR, Calcutta, India	
	90.77	7.5		Benghazi, Libya	
3306	90.73	10		Gwelo, Rhodesia	
3315	90.50	1	YVLI	R. Maracay, Venezuela	
	90.50	8		R. Martinique, Martinique	
	90.50	10		AIR, Bhopal, India	
	90.50	1	ZYV63	R. Itatiaia, Brazil	
3316	90.47	20		Paradys, So. Africa	
	90.46	5		Freetown, Sierra Leone	
3325	90.23	0.6	YVRA	R. Monagas, Venezuela	
	90.23	1	ZYJ21	R. Borborema, Brazil	
	90.23	1	HI5U	R. Caribe, Dominican Rep.	
	90.20	0.1	ZYR220	R.Dif. Hora Certa, Brazil	
3326	90.20	7.5/20		Kaduna, Nigeria	
**3330	90.09	0.75	CHU	Dominion Observatory, Can.	
	90.09	1	OAX1M	R. Progreso, Peru	
3331	90.06	4		Dzaoudzi, Comores Isl.	
3335	89.95	0.5	ZYR59	R. Pres. Prudente, Brazil	
	89.95	10		Forest Side, Mauritius	
	89.95	2	YVQD	Ecos de Oriñoco, Venezuela	
3336	89.90	4		Ziguinchor, Senegal	
3339	89.81	0.25		R. Zanzibar, Zanzibar	
3340	89.81	0.5	ZYV30	R.Dif. Brasileira, Brazil	
	89.81	5/8		Kampala, Uganda	
3345	89.68	2		R. Kashmir, India	
	89.68	2	DZB2	Call of Orient, Philipp.	
	89.68	7.5	YVOS	R. Continente, Venezuela	
3346	89.68	20		Lusaka, Rhodesia	
3350	89.55	1	OAX5J	R. Independencia, Peru	
3355	89.45	0.15	TGZA	R. Club, Guatemala	
	89.45	0.3	YDI20	Sumenep, Indonesia	
	89.45	0.25	HI2P	Emis. HI2P, Dominican Rep.	
	89.45	1	YVLC	R. Valencia, Venezuela	
	89.45	0.5	ZYV30	R. Uberlandia, Brazil	
	89.42	10		AIR, Hyderabad, India	
	89.42	0.2	HCDR4	R. Miramar, Ecuador	
	89.42	4		R. Noumea, New Caledonia	
	89.42	7.5		AIR, Kurseong, India	
3360	89.29	0.5	OAX3D	R. Huánuco, Peru	
3365	89.15	0.5	ZYS44	R.Dif. do Paraná, Brazil	
	89.15	1	HI4F	R. Santiago, Dominic. Rep.	

kc	m	kW	Call	Stations & countries	Rem.
3365	89.15	0.5		Biak, West New Guinea	
	89.15	10/100	VUD	AIR, Delhi, India	
3366	89.12	20		Accra, Ghana	
3375	88.89	0.2	HCMS4	R. Alejo Lascano, Ecuador	
	88.89	1	ZYK28	R. Olinda Pernamb., Brazil	
	88.89	0.6	YVMI	La Voz de la Fé, Venezuela	
	88.89	0.5		Hollandia, West New Guinea	
	88.89	10		AIR, Gauhati, India	
	88.89	5	YDW2	Pontianak, Indonesia	
3376	88.89	20		Paradys, So. Africa	
3380	88.76	8		St. Denis, Reunion	
3385	88.63	0.2	HCJP4	Ondas Manabitas, Ecuador	
	88.63	1	YVQI	R. Barcelona, Venezuela	
	88.63			R. Clube Teresina, Brazil	
	88.63	1		R. Eldorado, Brazil	
	88.63	1	HI2D	R. Hit Musical, Domin. Rep.	
3390	88.50	15/120		Peking, China	
	88.50	0.25	OQ2AC	R. Collége, Congo	
3395	88.37	1	YDP2	Medan, Indonesia	
	88.37	1	HI4F	R. Santiago, Dom. Rep.	
	88.37	1	CP66	R. Centenario, Bolivia	
	88.37	10/100	VUD	AIR, Delhi, India	
	88.37	10		Dacca, Pakistan	
	88.37	0.5		Sorong, West New Guinea	
	88.37	1	YVOJ	R. Universidad, Venezuela	
3396	88.36	20		Lusaka, Rhodesia	
	88.36	10		Kaduna, Nigeria	
3406	88.08	5	CR7CA	R. Clube de Mozambique	
3505	85.59	0.22	HCSG4	Voz del Valle, Ecuador	
3510	85.47	0.2	HCNL2	Voz del Campesino, Ecuador	
3515	85.35	0.2	HCKD5	R. Centro Gualaco, Ecuador	
3520	85.23	0.2	HCYC4	R. Escuelas Radiales, Ecuad.	
3545	84.63	0.3	HCOT1	R. Saracay, Ecuador	
3570	81.24	0.2	HCHG2	R. Central, Ecuador	
3615	83.00		HCGS6	R. Sideral, Ecuador	
3620	82.87	0.1	HCEF2	R. El Sagrario, Ecuador	
3630	82.64		HCOS4	Voz del Carrizal, Ecuador	
3670	81.74	1	HCFC3	R. Loja, Ecuador	
3680	81.48	0.25	HCIM1	Voz de los Lajos, Ecuador	
3695	81.12		HCLE1	R. Cotacachi, Ecuador	
3704	80.99	1	CR6RD	Nova Lisboa, Angola	
3740	80.15	0.3		Manokwari, West New Guinea	
3745	80.05	0.2	HCJR6	Voz del Dolegio, Ecuador	
3755	79.90		HCBH6	R. Latacunga, Ecuador	
3780	79.30	20		R. Iran, Iran	
3830	78.28	15/120		Peking, China	
3835	78.20	0.2	HCWN1	Voz del Triunfo, Ecuador	
3840	78.13	20		R. Iran, Iran	
3900	76.92			Inner Mongolia, China	
3905	78.63	10/100	VUD	AIR, Delhi, India	
3910	76.73	5	HLK51	Seoul, Korea	
3915	76.64	15/120		Peking, China	
	76.64	5	YDZ2	Ternate, Indonesia	
	76.64	7.5	YDB4	Djakarta, Indonesia	
3925	76.43	50	JOZ	Tokyo, Japan	
	76.43	10/100	VUD	AIR, Delhi, India	
3935	76.24	5	YDH2	Semarang, Indonesia	
	76.24	10	VRH7	Suva, Fiji Isl.	
3940	76.15	2.5	ZBW3	R. Hong Kong	
3945	76.05	0.5	DXB3	Cotabato, Philipp.	
	76.05	10	YDU2	Denpassar, Indonesia	
	76.05	10	JOZ4	Tokyo, Japan	
	76.05	0.25	HCDY4	R. Iris, Ecuador	
3950	75.95	0.3	HCPZ1	R. Rumichaca, Ecuador	
	75.95	0.2	HCLR5	Voz de Alausi, Ecuador	
3952	75.90	15/100		BBC, Gt. Britain	
	75.90	5	CR7RA	R. Pax, Mozambique	
3955	75.80	10		Zomba, Rhodesia	
3958	75.78	0.5		Stanley, Falkland Isl.	
3960	75.76	5	CR4AA	R.Cl. Cabo Verde	
	75.76	0.5	OAX7O	R. Madre de Dios, Peru	
	75.76	1	CR6RE	Malanje, Angola	
	75.76	1	CR4AC	R. Barlavento, Cape Verde I.	
	75.76	10/100		R. Free Europe, Germany	
	75.76	10	YDL	Padang, Indonesia	
	75.76	1	YDT	Soa Siu, Indonesia	
	75.76	0.2	HCJJ2	Ecos del Agro, Ecuador	
3965	75.67	0.35	HCJH1	R. Turismo, Ecuador	
	75.67	1/50		Taichung, Taiwan	
	75.65	10		Peshawar, Pakistan	
3970	75.57	5		Osterloog (NDR), Germany	
	75.57	0.2	HCHV4	La Voz del Pueblo, Ecuador	
	75.57	1	CR6SG	R. Clube Huila, Angola	
3975	75.47	15/100		BBC, London, Gt. Britain	
	75.48	10	YDI2	Surabaja, Indonesia	
	75.47	0.2	HCSN6	R. Sira, Ecuador	
3980	75.38	0.5	VRH4	Suva, Fiji Islands	

kc	m	kW	Call	Stations & countries	Rem.
3980	75.38	0.4	HCOF4	Voz de Chone, Ecuador	
	75.38	2.5/5		Enugu, Nigeria	
	75.38	8/100		Munich (VOA), Germany	
3985	75.28	15/120		Peking, China	
	75.28	0.3		Seoul (VUNC), Korea	
	75.28	0.2	HCAH3	R. El Trebol, Ecuador	
3990	75.19	20/50		R. Liberty, Germany	
	75.19	0.25	HCJA5	Voz del R. Tarqui, Ecuador	
	75.19	10		Dar-es-Salaam, Tanganyika	
	75.19	50		Baghdad, Iraq	
	75.19	10/100		R. Free Europe, Germany	
3995	75.09			R. Roma, Italy	
	75.09	10/100		R. Free Europe, Germany	
	75.09	1	HCGB4	R. Nac. Espejo, Ecuador	
4000	75.00	0.3	HCAO5	Voz de Tomebamba, Ecuad.	
	75.00			I. Mongolia, China	
	75.00			Bayinor, China	
4020	74.63	120/240		Peking, China	
**4025	74.50		GIC24	Hailsham, Gt. Britain	
4040	74.25	50		R. Kabul, Afghanistan	
4050	74.00			Frunze, USSR	
4068	73.75			Inner Mongolia, China	
	73.75			Chaowut, China	
4080	73.60			Semipalatinsk, USSR	
4092	71.88			Yuzhno Sakh, USSR	
4220	71.09			Sinkiang, China	
4250	70.59	15/120		Peking, China	
4273	70.21			Khabarovsk, USSR	
4310	69.61			Chimkent, USSR	
4315	69.35			Ufa, USSR	
4450	67.42	0.2	HCHG2	R. Central, Ecuador	
4460	67.18	15/120		Peking, China	
	67.18			Dzhambul, USSR	
4486	66.88			Ufa, USSR	
4500	66.67			Sinkiang, China	
	66.67	15/120		Peking, China	
4525	66.25			Silingol, China	
4544	66.01			Alma Ata, USSR	
4545	66.02	1	HCGE2	Nac. Espejo, Guayaquil, Ecu.	
4560	65.77		VSI	Grand Turk Isl.	
4600	65.22	3	HC2VP	R. Atalaya, Ecuador	
4620	64.93	0.5	HSQ	Bangkok, Thailand	
4635	64.60			Baku, USSR	
4650	64.50	0.5	HCAK2	R. de Ecuador, Ecuador	
4680	64.10	1	HCWE1	R. Nac. Espejo, Quito, Ecuad.	
4690	63.96	0.25	HCMX4	R. Cenit, Ecuador	
4710	63.69	0.5	HCBK2	R. El Mundo, Ecuador	
	63.69	50		R. Kabul, Afghanistan	
	63.69	5	ZYF24	R.dif. Maranhão, Brazil	
4725	63.48	50	XZK9	Rangoon, Burma	
	63.48	0.2	HCRM3	R. Machala, Ecuador	
4730	63.42	0.3	HCET2	R. El Telegrafo, Ecuador	
4750	63.16	3	YDQ	Makassar, Indonesia	
4755	63.09	1	ZYV3	R. Brasil, Brazil	
	63.09	0.15	CR4AB	R.Cl. Mindelo, Cape Verde	
	63.09	2.5	HCGJ	Reina de Colombia, Col.	
	63.09	0.2	HCLJ6	Voz de Bolivar, Ecuador	
4756	63.08	10	VRH6	Suva, Fiji Isl.	
4760	63.03	0.5	YVKV	Emis. Vargas, Venezuela	
	63.03	10/100	VUD	AIR, Delhi, India	
4762	63.00	0.25	OCX4W	R. Inca, Peru	
4765	62.95	3	HJEF	R.Dif. Occidente, Col.	
	62.96	1	ZYN37	Feira de Santana, Brazil	
	62.95	0.5		R.dif. del Ecuador, Ecuador	
4770	62.89	0.5	OAX2G	R. Cajamarca, Peru	
	62.89	1	CR6RG	R. Diamang, Angola	
	62.89	0.3	YVNW	Ondas del Caribe, Venezuela	
	62.89			Sinkiang, China	
	62.89	10		ELWA, Liberia	
	62.89	0.25	HCMX4	R. Cenit, Ecuador	
	62.89	1	HSQ	Bangkok, Thailand	
4775	62.84	5	ZYH29	R. Dragão do Mar, Brazil	
	62.84	5	ZYR81	R. Progreso, Brazil	
	62.84	50		R. Kabul, Afghanistan	
	62.84	1	HRLC	R. Continental, Honduras	
	62.83	10		AIR, Gauhati, India	
	62.83	0.25	CR7XB	Quelimane, Mozambique	
	62.84	30		R. Gabon, Gabon	
4780	62.76	1	YVLA	Voz de Carabobo, Venezuela	
	62.76	2	HC1MQ	R. Atahualpa, Ecuador	
	62.76	1	HI2S	Onda Musical, Dom. Rep.	
	62.76	4		R. Djibouti, Fr. Somaliland	
4785	62.70	0.5	ZYM8	R. Ribamar, Brazil	
	62.70	10		Dar-es-Salaam, Tanganyika	
	62.70	10	VRH5	Suva, Fiji Islands	
	62.70	30		R. Niger, Niger	
	62.70	1	ZYV20	R.Dif. do Guaporé, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
4785	62.70	1	CP74	R. Indoamerica, Bolivia	
4788	62.68	2	CR6RY	Novo Redondo, Angola	
4790	62.63	0.5	HRST	R. Primero de Mayo, Hond.	
	62.63	5	YVQN	Ondas Porteñas, Venezuela	
	62.63	0.2	HCAS4	Voz de los Caras, Ecuador	
4795	62.57	2	PRI4	R. Tabajara, Brazil	
	62.57	0.25		R. Zanzibar, Zanzibar	
	62.57	50	XZK2	Rangoon, Burma	
	62.57			R. Pioneira, Brazil	
	62.57	1	HJFU	Voz del Comercio, Col.	
4797	62.54	10		R. Somali, Somali	
4800	62.50	10	YVME	Ondas del Lago, Venezuela	
	62.50	1	CR6RD	Nova Lisboa, Angola	
	62.50	0.2	HCSV5	R. Amazonas, Ecuador	
4804	62.45	5		Kisumu, Kenya	
4805	62.43	5	ZYS8	R.Dif. do Amazonas, Brazil	
	62.42	20	YDB2	Djakarta, Indonesia	
4807	62.41	1		Lahore, Pakistan	
	62.41	1	CR5SC	São Tomé, São Tomé	
4808	62.40	0.5	OAX3E	R. Huaráz, Peru	
4810	62.37	1	YVMG	R. Popular, Venezuela	
	62.37	0.2	HCLS3	R. Coro S. Cecilia, Ecuador	
	62.37			Banmethuot, Vietnam (Rep.)	
	62.37	20		Paradys, So. Africa	
4815	62.31	1	ZYP33	Petropolis R.Dif., Brazil	
	62.31	0.3	HCFA4	Voz de Manabi, Ecuador	
	62.31	1	ZYH21	R. Icarema de Fortaleza, Br.	
	62.31	4		Ouagadougou, Upper Volta	
	62.31	1	OAX5U	R. Huancavelica, Peru	
4820	62.24	1	YVRC	Voz de Apure, Venezuela	
	62.24	1	OAX1O	R. Chiclayo, Peru	
	62.24	1	CR6RD	Nova Lisboa, Angola	
	62.24	0.2	XEJG	Guadalajara, Mexico	
	62.24	22.5		R. Singapore, Singapore	
4825	62.18	0.5	ZYV56	R.Cl. de Varginha, Brazil	
	62.18	1	CP70	R. Grigota, Bolivia	
	62.18	1	HJHC	R. Nariño, Colombia	
	62.18			R. Ashkhabad, USSR	
	62.18	0.5	ZYE7	Educadora de Parnaiba, Br.	
4826	62.16	0.5		R. Grigota, Bolivia	
4828	62.12	15		Lusaka, Rhodesia	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela	
	62.10	1	HSK4	R. Thailand, Thailand	
	62.10		HCAP4	Voz del Valle, Ecuador	
4835	62.05	0.35	OAX7T	R. Sicuani, Peru	
	62.05	5		R. Sarawak, Sarawak	
	62.05	0.5	ZYV37	R. Soc. Triangulo, Brazil	
	62.05	4		R. Mali, Mali	
4839	62.00	10		R. Bukavu, Congo Rep.	
4840	61.98	0.3	YDU	Singaradja, Indonesia	
	61.98	10/100	VUB	AIR, Bombay, India	
	61.98		YSCB	La Voz del Pacifico, El Salv.	
	61.98	1	YVOI	R. Valera, Venezuela	
	61.98	0.25	VL9BR	R. Rabaul, N. Guinea (Au.)	
4843	61.95	25		R. Congo, Congo	
	61.95	0.2		R. Cultural Machala, Ecuad.	
4845	61.92	0.5	ZYU8	R. Dif. de Teresina, Brazil	
	61.92	1	HJGF	R. Bucaramanga, Colombia	
	61.92	10		Dar-es-Salaam, Tanganyika	
	61.92	1	OAX1X	R. Chira, Peru	
4849	61.84	10	CR7BV	R. Clube de Mozambique	
4850	61.86	1	YVMS	R. Universo, Venezuela	
	61.86	0.25	HCCV3	Ond. del Zamora, Ecuador	
	61.86	0.5	OCX4B	R. Callao, Peru	
4852	61.83	4		Paramaribo, Surinam	
4855	61.79	30		R. Mauritania, Mauritania	
	61.79	1	CP59	R. Cobija, Bolivia	
	61.79	1	HJFN	R. Neiva, Colombia	
	61.79	10	YDK	Palembang, Indonesia	
	61.79	6		Nairobi, Kenya	
	61.79	10		Enugu (ENBS), Nigeria	
	61.79	1	ZYR61	R.Dif. de Taubaté, Brazil	
	61.79	0.25	CR7XD	Nampula, Mozambique	
4859	61.74	7.5		R. Clube de Mozambique	
4860	61.73	1	YVPA	R. Yaracuy, Venezuela	
	61.73			R. Kashmir, India	
	61.73	1/0.1	HI5C	Voz del Progreso, Dom. Rep.	
4865	61.66	1	CSA97	Ponta Delgada, Azores	
	61.66		HC1CD	Luz de America, Ecuador	
	61.66	1	HJFA	Voz de Pereira, Colombia	
	61.66	2	PRC5	R. Clube do Para, Brazil	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola	
4870	61.60	75		Colombo, Ceylon	
	61.60	0.5	OCX4T	Huancayo, Peru	
	61.60	2	YVKP	R. Tropical, Venezuela	
4873	61.56			Uralsk, USSR	
4875	61.54	5	ZYZ30	R. Jornal do Brasil, Brazil	
4875	61.54	30		Cotonou, Dahomey	
	61.54	10	YDG3	Surakarta, Indonesia	
4877	61.52			Saigon, Vietnam	
4880	61.48	7.5	YVKF	Ond. Populares, Venezuela	
	61.48	7.5		Leopoldville, Congo Rep.	
	61.48	1	OCX4E	R. 1160, Peru	
	61.48	1	HI2JP	R. Commercial, Dom. Rep.	
	61.48	10		AIR, Lucknow, India	
4885	61.45	10		Nairobi, Kenya	
	61.45	5	ZYV50	R. Cultura de Pocos, Brazil	
	61.45	1	ZYD9	R.dif. Rio Branco, Brazil	
	61.45	1	OAX5V	R. Villarica, Peru	
4890	61.35	5	YVKB	R. dif. Venezuela, Venezuela	
	61.35	0.25	HI5B	R. Libertad, Dom. Rep.	
	61.35	4		Dakar, Senegal	
4895	61.29	20		Paradys, So. Africa	
	61.29	0.25		Porto Amelia, Mozambique	
	61.29	8		R. Martinique, Martinique	
	61.29	2.5	ZYB22	R. Baré, Brazil	
	61.29	1	ZYN22	R. Cultura da Bahia, Brazil	
4900	61.22	10		Colombo, Ceylon	
	61.22	1	HJAC	Emisora Atlantico, Colombia	
	61.22	1	YVQE	R. Cumaná, Venezuela	
	61.22	1	YDS	Gorontalo, Indonesia	
4904	61.18	30		R. Tchad, Tchad	
4905	61.16	5	ZYZ22	R. Relogio Federal, Brazil	
	61.16	1	CR6RS	Lobito, Angola	
	61.16	0.5	HRQN3	Voz del Atlantico, Honduras	
	61.16	0.2	HCIM1	Voz de Imbabura, Ecuador	
4909	61.12	10		Mwanza, Tanganyika	
4910	61.10	10/50		Karachi, Pakistan	
	61.10	18		R. Nationale, Guinea (Rep.)	
	61.10	0.5	HI9B	Emisora HI8B/9B, Dom. R.	
	61.10	0.3	YDM	Bukittinggi, Indonesia	
	61.10	1	YVMK	R. Cabimas, Venezuela	
	61.10	0.3	OAX2K	R. Libertad, Peru	
	61.10	2	HC1MJ	R. Gran Colombia, Ecuador	
	61.10	0.1	HCAR1	R. Montufar, Ecuador	
4911	61.08	10		Lusaka, Rhodesia	
4915	61.04	5		Accra, Ghana	
	61.04	1	ZYR60	Cultura de Araraquara, Br.	
	61.04	2	ZYE2	R.dif. de Macapa, Brazil	
	61.04	1		R. Rio S. Francisco, Brazil	
4920	60.98	10	VLM4	Brisbane, Australia	
	60.98	7.5	YVKR	R. Caracas, Venezuela	
	60.98	0.2	HCMP2	Voz de la Peninsula, Ecuad.	
	60.98	0.1	HCJX6	R. Cultural Rel., Ecuador	
	60.98	10/100	VUM	AIR, Madras, India	
4923	60.94	0.5	HCQR1	R. Quito, Ecuador	
4924	60.92	7.5	CR7BU	R. Clube de Mozambique	
4925	60.90	1	ZYV32	R. Industrial, Brazil	
4930	60.85	1	HCCR1	R. Casa de la Cultura, Ecu.	
	60.85	10/50		Karachi, Pakistan	
	60.85	0.6	HI5V	Voz del Biran, Dom. Rep.	
	60.85			Erevan, USSR	
	60.85	0.5	YVOT	R. Junin, Venezuela	
	60.85	1	YDX	Tdj. Pinang, Indonesia	
4934	60.80	10		Nairobi, Kenya	
	60.80	0.25	OAX5Q	Abancy, Peru	
4935	60.80	1	ZYI21	R. Poti, Brazil	
	60.80	1	HJLF	Ondas de Ibaque, Colombia	
4940	60.73	2	YVMO	R. Occidental, Venezuela	
	60.73	1	HRUS	Voz de Suyapa, Honduras	
	60.73	10/100	VUD	AIR, Delhi, India	
	60.73	10		R. Abidjan, Ivory Coast	
	60.73			Kiev, USSR	
	60.73	0.5	OAX6N	R. Misti, Peru	
	60.73	10	HCXZ1	R. dif. Nacional, Ecuador	
4945	60.67	5	HCCW	Emis. Sur America, Colomb.	
	60.67	10	YDA3	Bandung, Indonesia	
	60.67	1	ZYO25	R. Capixaba, Brazil	
	60.67	0.25	ZYF22	R.dif. Mearim, Brazil	
	60.67	1	ZYE23	R. Educ. de Braganca, Br.	
	60.67	20		Paradys, So. Africa	
	60.67	0.25	DZB6	Nat. Teachers Coll., Philipp	
4950	60.60	1	YVMM	R. Coro, Venezuela	
	60.60	6		Nairobi, Kenya	
	60.60	25		Dakar, Senegal	
	60.60	7.5		R. Sarawak, Sarawak	
	60.60	2		R. Kashmir, India	
4955	60.54	2	PRF7	R. Cultura de Campos, Br.	
	60.54	50	HJCQ	R. Nacional, Colombia	
	60.54	0.25	OAX5S	R. Amauta, Peru	
4958	60.51			Baku, USSR	
4960	60.48	10/100	VUD	AIR, Delhi, India	
	60.48	1	YVQA	R. Sucre, Venezuela	
	60.48	1	HCPH5	R. Ruta, Ecuador	

kc	m	kW	Call	Stations & countries	Rem.
4960	60.48	0.5	OAX1S	R. Lambayeque, Peru	
4965	60.42	2.5		Lusaka, Rhodesia	
	60.42	2.5	HJAE	R. Santa Fé, Colombia	
4967	60.25	1/10/50		R. Kuwait, Kuwait	
4970	60.36	10	YVLK	R. Rumbos, Venezuela	
	60.36	0.3	HCGH1	R. Tarqui, Ecuador	
	60.36	0.25		R. Mogadiscio, Somali	
	60.36	5	VQA52	Jesselton, No. Borneo	
4972	60.33	30		R. Yaounde, Cameroon (Fr.)	
4975	60.30	2.5	YVV9	R. Timbira, Brazil	
	60.30			Blagoveshchensk, USSR	
	60.30			Fukien, China	
	60.30	1	ZYP27	R. Copacabana, Brazil	
4976	60.29	5/8		Kampala. Uganda	
4980	60.25	0.25	HI3K	Ondas del Yaque, Dom. Rep.	
	60.25	0.3	HCJC5	Ondas Azuayas, Ecuador	
4985	60.18	1	YDN2	Kotaradja, Indonesia	
	60.18	10		R. Malaya, Malaya	
	60.18	1.5	ZYZ5	A Voz de Oeste, Brazil	
	60.18	5	CP75	La Cruz del Sur, Bolivia	
	60.18		HJCV	R. Independencia, Colombia	
4990	60.12	0.04	CZQ3	Victoria, Seychelles	
	60.12	10		AIR, Hyderabad, India	
	60.12	15	YVMQ	R. Barquisimeto, Venezuela	
	60.12			Hunan, China	
	60.12	10/100	VUD	AIR Delhi, India	
	60.12	20		Lagos, Nigeria	
4995	60.06	3	CR6RZ	R. Angola, Angola	
	60.06	1	ZYX2	R. Brazil Central, Brazil	
	60.06	0.5	HRQW	R. Juventude, Hond. Rep.	
	60.06	1	OAZ4C	R. Andina, Peru	
4996	60.05			Magadan, USSR	
*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
*	60.00	20	RWM	Moscow, USSR	
*	60.00	2	WWVH	Puunene, Hawaii	
*	60.00	8	WWV	Lanham, USA	
*	60.00	2	JJY	Tokyo, Japan	
*	60.00		BPV	Peking, China	
*	60.00	2	LOL	Buenos Aires, Argentina	
*	60.00		HBN	Neuchatél, Switzerland	
*	60.00	1	IAM	Rome, Italy	
*	60.00	4	ZUO	Johannesburg, So. Africa	
*	60.00	0.3	IBF	Turin, Italy	
5010	59.88	10		FBS, Singapore	
	59.88		HCRP1	R. Catolica, Ecuador	
	59.88	0.4	OAX8V	R. Echo, Peru	
	59.88			R. Arkhangelsk, USSR	
	59.88	5		Grenada, Windward Isl.	
	59.88	4		R. Garoua, Cameroon (Fr.)	
	59.88	1	HI2MS	R. Cristal, Dominican Rep.	
	59.88			Kwangsi, China	
5012	59.85	10	HJCA	R. Nacional, Colombia	
5015	59.82			Vladivostok, USSR	
	59.82			R. Arkhangelsk, USSR	
	59.82	1	CR6RM	Mocamedes, Angola	
5020	59.76	1		Colombo, Ceylon	
	59.76	0.15	OAX5R	R. Ayacucho, Peru	
	59.76	1	HJFW	Transm. Caldas, Colombia	
	59.76	4		R. Niger, Niger	
	59.76	0.12	4VGS	R. Indépendence, Haiti	
5024	59.71	1	CR6RH	R. Clube Huila, Angola	
5025	59.70	1	ZYX24	R. Dif. de Aquidauana, Br.	
	59.70	0.3	OAX7Q	R. Quillabamba, Peru	
5026	59.70	5/8		Kampala, Uganda	
5030	59.64	1	HI3C	Voz del Papagayo, Dom. Rep.	
	59.64			R. Ayaviri, Peru	
	59.64	7.5	YVKM	R. Continente, Venezuela	
	59.64	0.2	4VGA	Port de Paix, Haiti	
	59.64	15/120		Peking, China	
	59.64	7.5	YDP	Medan, Indonesia	
	59.64	0.5	HCPS5	Ondas Cañaris, Ecuador	
5033	59.61	1	CR6RW	Cabinda, Angola	
	59.61	1	CR6RE	Malanje, Angola	
5035	59.58	0.5		R. Esp. Santo, Brazil	
	59.58	30		Bangui, C. African Rep.	
	59.57	1	ZYW22	R. Anhanguera, Brazil	
	59.57		HCCU5	La Voz de Azogues, Ecuador	
5039	59.53	7.5/20		Omdurman, Sudan	
5040	59.52			Tbilisi, USSR	
	59.52	1	YVMA	Ecos del Zulia, Venezuela	
	59.52		ZNX20	Bridgetown, Barbados	
5045	59.46	0.3		Beira, Mozambique	
	59.46	0.25	HCEA5	R. Roxi, Ecuador	
	59.46	1		R. Quitandinha, Brazil	
	59.46	10	ZYP23	R. Rio de Janeiro, Brazil	
	59.46	0.25	ZK5	Rarotonga, Cook Isl.	
5047	59.43	7.5	YDJ	Jogjakarta, Indonesia	

kc	m	kW	Call	Stations & countries	Rem.
5047	59.43	4		Lomé, Togo	
5050	59.41	20		Dar-es-Salaam, Tanganyika	
	59.41	5	YVKD	R. Cultura, Venezuela	
	59.41			Petropavlovsk, USSR	
	59.41	0.25	HCRI1	Centro R. Imbabura, Ecuador	
	59.41	5	HJDW	Voz de Medellin, Colombia	
	59.41	1	OAX1J	R. Tumbes, Peru	
5052	59.38	1	CR6RF	R. Cl. de Benguela, Angola	
5055	59.36	2	ZYO23	R. Vitoria, Brazil	
	59.36	0.5	HI2L	Voz del Tropico, Dom. Rep.	
	59.36	0.25		Aioun el Atrouss, Mauritania	
5058	59.32	0.5	OAZ4A	R. Tarma, Peru	
				5060–5950 kc	
5060	59.29	1	CR6RD	Nova Lisboa, Angola	
	59.29	0.25		UNOC, Congo	
	59.29	0.2		Voz del Austro, Ecuador	
5065	59.23			Petrozavodsk, USSR	
5067	59.21	25		Ulan Bator, Mongolia	
5075	59.13	25	HJGC	R. Sutátenza, Colombia	
	59.13	120/240		Peking, China	
5090	59.00	0.2	4VAF	Jérémie, Haiti	
	59.00	0.25	HCRI1	Ibarra, Ecuador	
5095	59.88	50	HJCG	R. Sutátenza, Colombia	
5100	58.82	0.25		Nampula, Mozambique	
5105	58.77	0.2	HCOB5	Ondas Azules, Ecuador	
5110	58.71			Khabarovsk, USSR	
5125	58.54	15/120		Peking, China	
5137	58.00	1	CR6RV	R. Clube Moxico, Angola	
5200	57.69		OQ2AC	R. Collége, Congo	
5225	57.42			Novosibirsk, USSR	
	57.42	2	OAX2A	R. Trujillo, Peru	
5230	57.36			Nicolayevsk, USSR	
5260	57.03			Alma Ata, USSR	
5270	56.93			Thai TV Co., Thailand	
5290	56.71			Krasnoyarsk, USSR	
5302	56.60			Ivanovo, USSR	
5320	56.40	15/120		Peking, China	
5440	55.15	1	OAX5X	R. Huancavelica, Peru	
5675	52.80	20		Damascus, Syria	
5680	52.78	1	OAX10	R. Chiclayo, Peru	
5740	52.26			Erevan, USSR	
	52.26	0.3	4VCB	La Voix du Sud, Haiti	
5760	52.10	0.5	HJJL	La Voz de Colombia	
5800	51.72	0.5	OAX7Z	R. Juliaca, Peru	
5807	51.67		GAY35	Rugby, Gt. Britain	
5810	51.63	0.25	YNRC	R. Cultural, Nicaragua	
5830	51.46	0.1	OCX4R	R. Industrial, Peru	
5838	51.39	0.5	OAX7K	R. Puno, Peru	
5850	51.27	0.5	HSQ	Bangkok, Thailand	
	51.27	0.8	HCDF1	Voz del Norte, Ecuador	
5875	51.05	1	HRNL	Voz de Honduras, Honduras	
5880	51.02	120/240		Peking, China	
5895	50.89			R. Katanga, Congo	
5900	50.84	1	ZNB	Mafeking, Bechuanaland	
	50.84	100		R. Budapest, Hungary	
5915	50.72	15/240		Peking, China	
5920	50.67			Kwangsi, China	
	50.67	1		R. Puerto Cabeso, Nicaragua	
5925	50.62			Tashkent, USSR	
5930	50.57	1	OAX6E	R. Continental, Peru	
	50.57	100		Praha, Czechoslovakia	
	50.57			R. Arkhangelsk, USSR	
5933	50.55	10		Elizabethville, Congo Rep.	
5935	50.54	120/240		Peking, China	
	50.54			R. Tibet, China	
5940	50.51			Khabarovsk, USSR	
				5950–6200 kc – 49 meter Band	
5950	50.42	120/240		Peking, China	
	50.42	100	3AM5	Trans World Radio, Monaco	
	50.42		HCCV5	Quatro Rios, Ecuador	
	50.42	0.5	OAX4P	R. Huancayo, Peru	
5952	50.40	5	TGNA	R. Cultural, Guatemala	
5954	50.39	1	TIQ	R. Casino, Costa Rica	
5955	50.38	10/100		Allouis, France	
	50.38	1	CR6RE	Malanje, Angola	
	50.38	0.5		Larissa, Greece	
	50.38	1	CP5	R. Illimani, Bolivia	
	50.38	0.5	CP81	R. Pio XII, Bolivia	
	50.38	10/100	VUD	AIR, Delhi, India	
	50.38	35/50/100		Tangier (VOA), Morocco	
	50.58	25		Sanaah, Yemen	
	50.38	10	ZYR226	R. Gazeta, Brazil	
5960	50.34	0.3	HCTR1	R. Equinoccial, Ecuador	
	50.34	100		R. Budapest, Hungary	
	50.34	50		Ulan Bator, Mongolia	
	50.34			Sverdlovsk, USSR	
	50.34	1	OAX7L	La Voz del Altiplano, Peru	

kc	m	kW	Call	Stations & countries	Rem.
5960	50.34	0.3	OAX6A	R. Arequipa, Peru	
	50.34	50/60/100		R. Roma, Italy	
	50.34	10/100		R. Free Europe, Germany	
	50.34	1	BEP23	Taipei, Taiwan	
	50.34	0.6	HOL21	R. Hogar, Panama	
	50.34	1	HJCF	Voz de Bogota, Colombia	
	50.34	25		Dakar, Senegal	
	50.34	0.5	HRHR5	Voz de Occidente, Honduras	
	50.34	8/100		Munich (VOA), Germany	
	50.34	5/7.5		R. Athens, Greece	
	50.34	2		R. Kashmir, India	
5965	50.28	0.2	HCGE5	R. Mundial Ecuador	
	50.28	50/200	KCBR	Delano, USA	
	50.28	50	WBOU	Bound Brook, USA	
	50.28	0.5	YNWW	R. Sport, Nicaragua	
	50.28	0.5	HRVW4	Voz de Centro America, Hon.	
	50.28	7.5	ZYU60	R. Guaiba, Brazil	
5970	50.25	50	CKNA	R. Canada, Canada	
	50.25	0.3	CBNX	St. John's, Canada	
	50.25	7.5	HI4SD	R. Santo Domingo, Dom. R.	
	50.25	10/100		R. Free Europe, Germany	
	50.25	1	YDO2	Bandjarmasin, Indonesia	
	50.25	1.5		R. Brazzaville, Congo	
	50.25	100	3AM5	Trans World Radio, Monaco	
	50.25	0.2	HCJT1	R. Tulcan, Ecuador	
	50.25	10	OBX4Q	R. El Sol, Peru	
	50.25	1	DZCA	NCDA, Philipp.	
	50.25	120/240		Peking, China	
	50.25	10		AIR, Gauhati, India	
5975	50.21	15/100		BBC, London, Gt. Britain	
	50.21	10	ZYT44	R. Guaruja, Brazil	
	50.21	1	ZPA6	R. Guaira, Paraguay	
	50.21	4		Dakar, Senegal	
	50.21	8/100		Munich (VOA), Germany	
	50.21	3		Jeddah, Saudi Arabia	
	50.21	1	CP44	R. Nacional LAB, Bolivia	
	50.21	50/80	WRUL	World Wide Br., N.Y., USA	
	50.21	10/100	VUD	AIR, Delhi, India	
	50.21	10	HLK22	Seoul, Korea	
	50.21	0.3	HCMH6	R. Cotopaxi, Ecuador	
5979	50.18			Yakutsk, USSR	
5980	50.17	5	OBX4M	R. Panamericana, Peru	
	50.17	50		Monrovia (VOA), Liberia	
	50.17	1	TGAR	R. Quetzal, Guatemala	
	50.17	7.5		Dacca, Pakistan	
	50.17	5	VQO2	Honiara, Solomon Isl.	
	50.17	5		Freetown, Sierra Leone	
	50.17	10/50		Karachi, Pakistan	
	50.17	20/100	DMQ5	D. Welle, Germany	
	50.17	1/50		Taipei (BCC), Taiwan	
	50.17	10/50/100		R. Nederland, Holland	
	50.17			Tbilisi, USSR	
	50.17	100		Bucharest, Rumania	
	50.16	2	ZFY	R. Demerara, Br. Guiana	
5985	50.13	10	LRS2	R. Splendid, Argentina	
	50.13		4VB	R. Commerce, Haiti	
	50.13	50/100	KNBH	Dixon, USA	
	50.13	10/100		R. Free Europe, Germany	
	50.13	10/50/100		R. Nederland, Holland	
	50.13		HJGW	R. Independencia, Colombia	
	50.13	1.5	BEC37	Tsoying, Taiwan	
	50.13	120/240		Peking, China	
	50.13	0.3	HCGH1	R. Tarqui, Ecuador	
5990	50.08	15/100		BBC, London, Gt. Britain	
	50.08	10/100		R. Free Europe, Germany	
	50.08	50	CHAY	R. Canada, Canada	
	50.08	0.5	HCGY6	R. Luz, Ecuador	
	50.08	1	YDS2	Menado, Indonesia	
	50.08	1		Pakanbaru, Indonesia	
	50.08	10/100	VUD	AIR, Delhi, India	
	50.08	10		Peshawar, Pakistan	
	50.08	5	TGJA	R. Nuevo Mundo, Guatem.	
	50.08		OAX1W	R. Nac. Tumbes, Peru	
	50.08	120/240		Peking, China	
	50.08	100		R. Habana, Cuba	
	50.08	10		AIR Bhopal, India	
	50.08	100		Bucharest, Rumania	
5993	50.05	10		R. Coquilhatville, Congo R.	
5995	50.04	1.5		R. Martinique, Martinique	
	50.04	3	OAX4V	R. America, Peru	
	50.04	1	YNDG	R. Colonial, Nicaragua	
	50.04	40		R. Nacional, Spain	
	50.04	35		Thessaloniki (VOA), Greece	
	50.04	50		R. Nacional, Spain	
	50.04	1	HOM50	Circuito RPC, Panama	
	50.04	0.3	CP41	R. Loyola, Bolivia	
	50.04	50	WDSI	Wayne, USA	

kc	m	kW	Call	Stations & countries	Rem.
5995	50.04	7.5/20		Omdurman, Sudan	
	50.04	1	HRP1	El Eco de Honduras, Hon. R.	
	50.04	1	BEC77	Taipei, Taiwan	
5997	50.03	1	HJFQ	Voz del Pueblo, Colombia	
	50.03	3	OAX4V	R. America, Peru	
6000	50.00	1/50	OEI20	Aldrans, Austria	
	50.00	20/100	ORU	Wavre, Belgium	
	50.00		CE600	R. El Carbon, Chile	
	50.00	0.8	HCDF1	Voz del Norte, Ecuador	
	50.00	1	DZH4	Voice of the Philippines	
	50.00	5	CXA2	R. Sur, Uruguay	
	50.00	1	TGTA	R. Sonora, Guatemala	
	50.00	5	PRK5	R. Inconfidencia, Brazil	
	50.00	4		R. Djibouti, Fr. Somaliland	
	50.00	120/240		Peking, China	
	50.00	7.5		R. Americas, Swan Island	
	50.00	1	OAX7E	R. Nac. Puno, Peru	
	50.00		YVNL	R. Miranda, Venezuela	
6002	49.98			R. St. 4VEH, Haiti	
6003	49.97	0.5		Tripolis, Greece	
6004	49.96	7.5		Colombo, Ceylon	
	49.96	5		Kathmandu, Nepal	
6005	49.96	20		Berlin RIAS, Germany	
	49.96	20		Paradys, So. Africa	
	49.96	1	HP5K	La Voz de la Victor, Panama	
	49.96	7.5/100		Warsaw, Poland	
	49.96	3.5		R. Zanzibar, Zanzibar	
6006	49.95	1	TIHBG	R. Reloj, Costa Rica	
6010	49.92	1	CJCX	Sydney, Canada	
	49.92	0.25/10	VUC	AIR, Calcutta, India	
	49.92			Ashkhabad, USSR	
	49.92	1	CE601	Emisoras Norte, Chile	
	49.92	15/100		BBC, London, Gt. Britain	
	49.92	50/60/100		R. Roma, Italy	
	49.92	35/100		Okinawa (VOA), Ryukyu Isl.	
	49.92			R. Thailand, Thailand	
	49.92	2.5	XEOI	Radio Mil, Mexico	
	49.92	3	OAX4Q	R. Victoria, Peru	
	49.92	10	HJFK	La Voz Amiga, Colombia	
6015	49.88	10/100		R. Free Europe, Germany	
	49.88	100		R. Habana, Cuba	
	49.88			Kiev, USSR	
	49.88	1	ZPA10	R. Paraguay, Paraguay	
	49.88	20/100	DMQ6	D. Welle, Germany	
	49.88	7.5/100		Warsaw, Poland	
	49.88	10		Dacca, Pakistan	
	49.88	35		Courier (VOA), Greece	
	49.88	0.75	4VEB	R. Caraibes, Haiti	
	49.88	5	PRA8	R. Cl. de Pernambuco, Br.	
	49.88	0.5	HCEB4	R. Manta, Ecuador	
6020	49.83	8/100		Munich (VOA), Germany	
	49.83	10	HJCX	Voz de Colombia, Colombia	
	49.83			Kiev, USSR	
	49.83	10/100		R. Free Europe, Germany	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico	
	49.83	1	TGDA	La Voz de Occidente, Guatem.	
	49.83	7.5	ZL20	Wellington, New Zealand	
	49.83	20		Gwelo, Rhodesia	
	49.83			Komsomolsk, USSR	
	49.83			Khabarovsk, USSR	
	49.83	1	CE602	Diego Portales, Chiles	
	49.83	10/50/100		R. Nederland, Holland	
	49.83	0.25	HCNF5	R. Dif. del Ecuador	
	49.83	1	HROW2	R. Monserrat, Honduras	
6025	49.79	10	ZYR63	R. Em. de Piratininga, Br.	
	49.79	110	WLWO	Bethany, USA	
	49.79	0.3		Van, Turkey	
	49.79	20/100	DMQ6	D. Welle, Germany	
	49.79	10	CSA52	R. Nacional, Portugal	
	49.79	3	ZPA1	R. Nacional, Paraguay	
	49.79	0.1	HI1J	Voz de Oriente, Dom. Rep.	
	49.79	10/50/100		R. Nederland, Holland	
	49.79	100		Praha, Czechoslovakia	
	49.79	5		R. Malaya, Malaya	
	49.79	10	CR6RZ	R. Angola, Angola	
	49.79	120/240		Peking, China	
6028	49.77	1	OAX8B	R. Nac. Iquitos, Peru	
6030	49.75	0.1	CFVP	Calgary, Canada	
	49.75	20		Mühlacker (SDR), Germany	
	49.75	0.5	XEKW	R. Continente, Mexico	
	49.75	25/100		Vatican State	
	49.75	0.25	HP5B	R. Cadena Miramar, Pan.	
	49.75	2	DZH6	"The Call of Orient", Philipp	
	49.75	7	TGTQ	R. Internacional, Guat.	
	49.75	0.2	HCRQ2	Voz del Tropico, Ecuador	
	49.75	50	YIH62	Baghdad, Iraq	
6035	49.71	30	3AM3	Monte Carlo, Monaco	

kc	m	kW	Call	Stations & countries	Rem.
6035	49.71	10	HLK52	Seoul, Korea	
	49.71	10/50/100		R. Nederland, Holland	
	49.71	0.5	HCNK3	R. Cariamanga, Ecuador	
	49.71	10		Seoul (VUNC), Korea	
	49.71	15/100		BBC, London, Gt. Britain	
	49.71	10	ZYZ26	R. Globo, Brazil	
	49.71	1	CXA30	R. Nacional, Uruguay	
	49.71	120/240		Peking, China	
	49.71	50	XZK3	Rangoon, Burma	
	49.71	1.5	HRTV	R. Tegucigalpa, Hond. R.	
6037	49.69	0.3	TIFC	Faro del Caribe, Costa Rica	
6038	49.69	0.5	OAX6B	R. Landa, Peru	
6040	49.67	15/100		BBC, London, Gt. Britain	
	49.67	35		Thessaloniki (VOA), Greece	
	49.67	10/100	VUD	AIR, Delhi, India	
	49.67	1/50		Taipei (BCC), Taiwan	
	49.67	0.5	YNLUA	Radio City, Nicaragua	
	49.67	10	HJLB	La Voz del Tolima, Colomb.	
	49.67	50/200	KCBR	Delano, USA	
	49.67	5	CE604	R. Libertad, Chile	
	49.67	8/100		Munich (VOA), Germany	
6045	49.63	0.25	XEQOC	R. Univ., SLP, Mexico	
	49.63	100	YDF	Djakarta, Indonesia	
	49.61	1	HOU31	Voz del Baru, Panama	
	49.63	5		Athens (FBS), Greece	
	49.61	7.5	ZYS33	R. Clube Paranaense, Brazil	
	49.63	25		Ouagadougou, Upper Volta	
	49.63	10	CXA61	El Espectador, Uruguay	
6050	49.59	10	HRLP3	R. America, Honduras R.	
	49.59	15/100		BBC, London, Gt. Britain	
	49.59	5.6		Kigali, Rwanda	
	49.59			R. Hanoi, Vietnam (Dem. R.)	
	49.59	2	VTW2	Tarawa, Gilbert Isl.	
	49.59	30	HCJB	Voz de los Andes, Ecuador	
	49.59	5	TGXB	R. Centro Musical, Guatema.	
6054	49.56	10	HJEX	R. Pacifico, Colombia	
6055	49.55	10	PRB21	R. Panamericana, Brazil	
	49.55	1	CP18	R. El Condor, Bolivia	
	49.55			Petrozavodsk, USSR	
	49.55	50	JOZ2	Tokyo, Japan	
	49.55	0.35	DYH4	Dumaguete City, Philipp.	
	49.55	10/50		R. Kuwait, Kuwait	
	49.55	5	CXA53	La Voz de Melo, Uruguay	
	49.55	20/50		R. Liberty, Germany	
	49.55	100		Praha, Czechoslovakia	
	49.55	100	HER2	Schwarzenburg, Switzerland	
6060	49.50	0.3	HRYN4	Voz del Merendon, Hond. R.	
	49.50	15/100		BBC, London, Gt. Britain	
	49.50			R. Berlin Int., Germ. (DDR)	
	49.50	0.5	HI8Z	R. Santiago, Dom. Rep.	
	49.50			Caltanissetta, Italy	
	49.50	1.5	TGXX	R. Ciros, Guatemala	
	49.50	0.5	HORT	R. Balboa, Panama	
	49.50	50	OZF3	R. Denmark, Denmark	
	49.50	50	CRRZ	R. Canada, Canada	
	49.50	50/60/100		R. Roma, Italy	
	49.50	0.75	HCAC1	Voz de Democracia, Ecuador	
	49.50	16	LRA31	R. Nacional, Argentina	
6062	49.48	2		Bangkok, Thailand	
	49.48	1	OAX8L	R. Telesar, Peru	
6065	49.46	0.45	YNEQ	R. Universal, Nicaragua	
	49.46	35/50/100		Tangier (VOA), Morocco	
	49.46	10		R. Nac. Brasilia, Brazil	
	49.46	0.2	HCEM1	Ondas Carchenses, Ecuador	
	49.46	100		Hörby, Sweden	
	49.46	15/240		Peking, China	
	49.46	5	XEXG	La Voz de Mexico, Mexico	
6070	49.42	1	CFRX	Toronto, Canada	
	49.42	100		R. Habana, Cuba	
	49.42	15/100		BBC, London, Gt. Britain	
	49.42			Petropavlovsk, USSR	
	49.42	120		R. Sofia, Bulgaria	
	49.42	0.5	HCIW5	R. El Mercurio, Ecuador	
	49.42	1	HSK5	R. Thailand, Thailand	
	49.42	10/50		Karachi, Pakistan	
	49.42	0.3	OAX4S	Onda Popular, Peru	
	49.42	5	CE607	R. Soc. Nac. de Mineria, Chile	
	49.42	5		Hollandia, West New Guinea	
	49.42	100		Accra, Ghana	
	49.42	4		Ziguinchor, Senegal	
6075	49.38	1	TI2GG	R. Excelsior, Costa Rica	
	49.38	10	HJGT	R. Sutatenza, Colombia	
	49.38	20		Osterloog (NDR), Germany	
	49.38	7.5/100		Warsaw, Poland	
	49.38	2.5	CXA3	R. Ariel, Uruguay	
	49.38	7.5		Colombo, Ceylon	
	49.38			Erevan, USSR	

kc	m	kW	Call	Stations & countries	Rem.
6075	49.38	0.15	4CVP	LV du Nord, Haiti	
	49.38	35/100		Okinawa (VOA), Ryukyu Isl.	
	49.38	100		Honolulu (VOA), Hawaii	
	49.38	0.6	HRMH5	La Voz del Junco, Hond. R.	
	49.38	5/7.5		R. Athens, Greece	
6080	49.34	15/100		BBC, London, Gt. Britain	
	49.34	120/240		Peking, China	
	49.34	0.25	DZI7	Voice of Manila, Philipp.	
	49.34	35/100		Tangier (VOA), Morocco	
	49.34	0.25	HI5B	R. Libertad, Dom. Rep.	
	49.34	0.1	CKFX	Vancouver, Canada	
	49.34	7.5	ZL7	Wellington, New Zealand	
	49.34	0.25		Grenada, Windw. Isl.	
	49.34	50/100		Cairo, Un. Arab. Rep.	
	49.34			R. Berlin Int., Germ. (DDR)	
	49.34	10	CBS51	R. Cl. Portuguese, Portugal	
	49.34	1.5	TGSM	R. Nac. S. Marcos, Guatem	
	49.34		HCDG2	R. Bolivar, Ecuador	
	49.34	10/100		R. Japan, Japan	
6082	49.32	10	OAX4Z	R. Nacional, Lima, Peru	
6085	49.30	10		Munich (BR), Germany	
	49.30	50/200	KNBH	Dixon, USA	
	49.30			Tallinn, USSR	
	49.30			Kiev, USSR	
	49.30	10/100	VUM	AIR, Madras, India	
	49.30	0.3		Izmir, Turkey	
	49.30	50/100		R. Nederland, Holland	
	49.30	15	ZYK2	R. Jornal do Comercio, Br.	
	49.30	10		R. Stanleyville, Congo Rep.	
6090	49.26	2	VLI6	Sydney, Australia	
	49.26	15/100		BBC, London, Gt. Britain	
	49.26	0.25	4VO	R. Lumiere, Haiti	
	49.26	50	CKOB	R. Canada, Canada	
	49.26	0.3	HOO	R. Independiente, Panama	
	49.26	10		R. Kaduna, Nigeria	
	49.26	50		R. Luxembourg, Luxembourg	
	49.26	15		R. Cambodge, Cambodia	
	49.26			R. Thailand, Thailand	
	49.26	3	BEC26	Taipei, Taiwan	
	49.26			Irkutsk, USSR	
	49.26	50	LRY1	R. Belgrano, Argentina	
	49.26	0.5	HRNQ4	R. Morazan, Honduras Rep.	
	49.26	1	HI3U	R. Caribe, Dom. Rep.	
	49.26	1	XECMT	Ci. Mante, Mexico	
6095	49.22	10/100		R. Free Europe, Germany	
	49.22	25	ZYB7	R. Dif. de São Paulo, Brazil	
	49.22	1/50		Chiayi (BCC), Taiwan	
	49.22	20		Paradys, So. Africa	
	49.22	0.3	HC5PT	Voz del P. Socorro, Ecuador	
6100	49.18	0.3	HCSP4	Voz del Volante, Ecuador	
	49.18	0.25	CE610	R. Calama, Chile	
	49.18	1	OAX1T	R. Grau, Peru	
	49.18	15/120		Peking, China	
	49.18	20/100	DMQ6	Deutsche Welle, Germany	
	49.18	10/100		R. Belgrade, Yugoslavia	
	49.18	0.25	DYH3	R. Cebu, Philippines	
	49.18	7.5		AIR, Kurseong, India	
	49.18	3		Jeddah, Saudi Arabia	
	49.18	0.4	YNEC	R. Her. Cordoba, Nicaragua	
	49.18	0.54		LV de l'Ave Marie, Haiti	
6105	49.14	1	HJNV	R. Vision, Colombia	
	49.14	0.25	XEQM	Merida, Mexico	
	49.14	5	ZYN6	Ceará R. Clube, Brazil	
	49.14	10/100		R. Free Europe, Germany	
	49.14	25	BEC61	Taipei, Taiwan	
6110	49.10	1/20		Radio Kashmir, India	
	49.10	15/100		BBC, London, Gt. Britain	
	49.10	1	ZPA11	R. Charitas, Paraguay	
	49.10	20/100	DMQ6	D. Welle, Germany	
	49.10	0.5	TGQA	R. Nacional Guatemala	
	49.10	50		R. Tunis, Tunisia	
	49.10	0.5	HRXW2	R. Comayagüela, Hond. R.	
	49.10	1	HI1Z	Broadcasting Nac., Dom. Rep	
	49.10	5	CE611	Soc. Nac. de Agricult., Chile	
	49.10	2	YVKQ	R. Tropical, Venezuela	
6112	49.08	0.25		Nairobi (FBS), Kenya	
6115	49.06	1	HJNE	R. El Sol, Colombia	
	49.06	35/50/100		Tangier (VOA), Morocco	
	49.06	100	ZYC7	R. Tupi, Brazil	
	49.06	2	CXA73	R. Clarin, Uruguay	
	49.06	1		R. Douala, Cameroon (Fr.)	
	49.06	1	OBX4Z	R. Luz, Peru	
	49.06	0.3	OAX4H	R. Mundial, Peru	
	49.06	20		R. Berlin Int., Germ. (DDR)	
	49.06			Khabarovsk, USSR	
6116	49.05			R. Dalat, Vietnam (Rep.)	
6120	49.02	10	LRX1	El Mundo, Argentina	

kc	m	kW	Call	Stations & countries	Rem.
6120	49.02	50	CKYT	R. Canada, Canada	
	49.02	2.5	4VE	R. St. 4VEH, Haiti	
	49.02	15	OIX7	Pori, Finland	
	49.02	7.5/20		BBC, Cyprus	
	49.02	10		AIR, Hyderabad, India	
	49.02	0.5	HI9B	R. Dif. HI8B/9B, Dom. Rep.	
	49.02		HCRL2	Quinta Piedad, Ecuador	
	49.02	5	YDI4	Surabaja, Indonesia	
	49.02	120/240		Peking, China	
6122	49.00	0.5	HP5H	Voz del Pueblo, Panama	
6125	48.98	10	CXA4	S.O.D.R.E., Uruguay	
	48.98	1	HRQ4	R. Suyapa, Honduras Rep.	
	48.98	15/100		BBC, London, Gt. Britain	
	48.98	1	CP15	El Condor, La Paz, Bolivia	
	48.98	10/100		R. Free Europe, Germany	
	48.98	35/100		Poro (VOA), Philippines	
	48.98			Kaunas, USSR	
	48.98	120/240		Peking, China	
	48.98	10		R. Luluabourg, Congo Rep.	
	48.98	7.5	PRG9	R. Nac. de S. Paulo, Brazil	
	48.98	1	HJKE	R. Continental, Colombia	
6130	48.94	1		R. El Morro, Chile	
	48.94	2	VLT6	Port Moresby, New Guinea	
	48.94			Makhachkala, USSR	
	48.94	1.5	HCFB2	R. Condor, Ecuador	
	48.94	0.2/100	LKJ	R. Norway, Norway	
	48.94	0.1	XERCM	R. Central de Mexico, Mex.	
	48.94	0.25	HI1G	R.dif. HIG, Dom. Rep.	
	48.94	1	CE613	R. Univ. Concepcion, Chile	
	48.94		YVPE	La Voz de Avila, Venezuela	
	48.94	10/100		R. Free Europe, Germany	
	48.94	100		R. Nacional, Spain	
	48.94	0.5	CHNX	Halifax, Canada	
	48.94	10		AIR, Gauhati, India	
6135	48.90	0.9	HRME2	La Voz del Patio, Hond. R.	
	48.90	0.5	CP30	Santa Cruz, Bolivia	
	48.90	1	CR6RU	Carmona, Angola	
	48.90	35/50/100		Tangier (VOA), Morocco	
	48.90	1	HJEV	La Voz del Valle, Colombia	
	48.90	0.3	OCX4M	R. Pasco, Peru	
	48.90	1	CE613	Univ. de Concepción, Chile	
	48.90	4		Tananarive, Malgache Rep.	
	48.90	0.5		Kozani, Greece	
	48.90	25		R. Ulan Bator, Mongolia	
	48.90	4		Papéete, Tahiti	
	48.90	10/100	VUD	AIR, Delhi, India	
	48.90	10		R. Malaya, Malaya	
	48.90	120/240		Peking, China	
	48.90	7.5	PRC21	R. Soc. Gaucha, Brazil	
	48.90	20/50		R. Liberty, Germany	
6140	48.86	15/100		BBC, London, Gt. Britain	
	48.86		OAX9B	Chachapoyas, Peru	
	48.86	20/100	ORU	Wavre, Belgium	
	48.86	10/100	VUD	AIR, Delhi, India	
	48.86	1		R. Tripoli, Libya	
	48.86	0.5	YNWA	R. Mundial, Nicaragua	
	48.86	2	VLW6	Perth, Australia	
	48.86	10/100		R. Japan, Japan	
	48.86	0.25	DYH2	Voice of Cebu, Philipp.	
	48.86	8/100		Munich (VOA), Germany	
	48.86	1	TGHC	R. Universal, Guatemala	
	48.86	0.5	HOQQ	R. Nacional, Panama	
	48.86	10	CXA20	R. Monte Carlo, Uruguay	
	48.86	1	HCOV5	Ondas del Volante, Ecuador	
	48.86	50/80	WRUL	Worldwide Br., N.Y., USA	
6145	48.82	10/100		Allouis, France	
	48.82	35/100		Okinawa (VOA), Ryukyu Isl.	
	48.82	20/100	DMQ6	Deutsche Welle, Germany	
	48.82	2.5/5		Enugu, Nigeria	
	48.82	0.3	HRXN4	R. Estrella, Hond. R.	
	48.82	120/240		Peking, China	
	48.82	50/200	KNBH	Dixon, USA	
	48.82	1	HJEQ	La Voz de Cauca, Colombia	
	48.82	50	PRL9	R. Nacional, Río de Jan., Br.	
6150	48.78	5	VLR6	Melbourne, Australia	
	48.78	15/100		BBC, London, Gt. Britain	
	48.78	7.5/20		Omdurman, Sudan	
	48.78	5	CE615	La Voz de Chile, Chile	
	48.78	10/100		R. Belgrade, Yugoslavia	
	48.78	120/240		Peking, China	
	48.78	1/100	ETLF	Addis Ababa, Ethiopia	
	48.78	20		Paradys, So. Africa	
	48.78	1/10		R. Lao, Laos	
	48.78	0.5	TGAZ	R. Continental, Guatemala	
	48.78	10/100	VUB	AIR, Bombay, India	
	48.78	0.5	OBX4G	R. Excelsior, Peru	
6155	48.74	3	CSB52	R. Renascenca, Portugal	

kc	m	kW	Call	Stations & countries	Rem.
6155	48.74	1	CP12	R. Fides, Bolivia	
	48.74	1/50	OEI21	Wien, Austria	
	48.74	10	CXA13	R. Carve, Uruguay	
	48.74	0.25	4VWA	R. Citadelle, Haiti	
	48.74	15/240		Peking, China	
	48.74	7.5		R. Täbriz, Iran	
	48.74	4		Lomé, Togo	
	48.74	50		Baghdad, Iraq	
	48.74	1	TGUC	R. Centro, Honduras R.	
	48.74	0.3	HCLT4	R. Costa Azul, Ecuador	
	48.74	10		Tokyo (FEN), Japan	
	48.74			Kansu, China	
6160	48.70	50	CHAC	R. Canada, Canada	
	48.70	1	OCX4G	R. Mundo, Peru	
	48.70	10	HJKJ	Nueva Granada, Colombia	
	48.70	50		Algier 3, Algeria	
	48.70	0.5	CBUX	Vancouver, Canada	
	48.70	0.25	TGZA	R. Club, Guatemala	
	48.70	10/100		R. Free Europe, Germany	
	48.70	1	HCSJ1	R. Javier, Ecuador	
6165	48.66			Saigon, Vietnam	
	48.66	100	HER3	Schwarzenburg, Switzerland	
	48.66	15/100		BBC, London, Gt. Britain	
	48.66	10	XEWW	Voz de America Latina, Mex.	
	48.66	30		R. Tchad, Tchad	
	48.66	1	4VM	R. Manrèse, Haiti	
	48.66	7.5	ZYR58	R. Cultura, Brazil	
6170	48.62	10		AIR, Lucknow, India	
	48.62	120		Sofia, Bulgaria	
	48.62	8/100		Munich (VOA), Germany	
	48.62	120/240		Peking, China	
	48.62	4		Tananarive, Malgache Rep.	
	48.62	35/100		Tangier (VOA), Morocco	
	48.62	15/100		BBC, London, Gt. Britain	
	48.62	1	CXA21	R. Fenix, Uruguay	
	48.62	1	OAX1N	R. Progreso, Peru	
	48.62	35/100		Okinawa (VOA), Ryukyu Isl.	
	48.62	10	YDL3	Padang, Indonesia	
	48.62			Shensi, China	
	48.62	7.5/20		BBC, Cyprus	
	48.62	0.2	HCPJ2	R. Fluminense, Ecuador	
	48.62	0.3	OBX4B	R. Corporacion, Peru	
	48.62	0.25	DUH2	Philipp. Br., Philipp.	
	48.62	10	YVKO	R. Nacional, Venezuela	
6175	48.58	22.5		R. Singapore, Singapore	
	48.58	20		Kaduna, Nigeria	
	48.58	0.3	HP5G	R. Panamericana, Panama	
	48.58	0.3	OAX7C	R. Tahuantisuyo, Peru	
	48.58	10		R. Guarani, Brazil	
	48.58			Kazan, USSR	
	48.58	15/100		BBC, London, Gt. Britain	
	48.58	10/100		Allouis, France	
	48.58	1	HRTW4	R. & TV Hondureña, H. R.	
	48.58	5/7.5		R. Athens, Greece	
	48.58	0.1	XEXA	R. Gobernacion, Mexico	
	48.58	1		Cayenne, Fr. Guiana	
	48.58	2		Malaga (RNE), Spain	
6176	48.57			Shensi, China	
6178	48.55	0.2	4VSC	R. St. Marc, Haiti	
6180	48.54	1	TGWB	R. Nacional, Guatemala	
	48.54	15/100		BBC, London, Gt. Britain	
	48.54	50	WDSI	Brentwood, USA	
	48.54	10/100	VUD	AIR, Delhi, India	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina	
	48.54	1/50		Taipei (BCC), Taiwan	
	48.54	120/240		Peking, China	
	48.54	0.6	HCRT6	R. Paz y Bien, Ecuador	
6185	48.50	10		Addis Ababa, Ethiopia	
	48.50	10		Ibadan, Nigeria	
	48.50	1	CP9	R. Amauta, Bolivia	
	48.50	50/200	KCBR	Delano, USA	
	48.50	10	ZYR77	R. Bandeirantes, Brazil	
	48.50	7.5/50		Malolos (VOA), Philipp.	
	48.50	50	HJCT	R. Televisora Nac., Col.	
	48.50	0.2	LLI	R. Norway, Norway	
	48.50	0.5	HRMT4	R. Molino Rojo, Honduras	
	48.50	0.2	HCXX2	La Voz de Vinces, Ecuador	
	48.50	100	CSA29	R. Nacional, Portugal	
	48.50	35		Thessaloniki (VOA), Greece	
	48.50	35		Courier (VOA), Greece	
	48.50	10/100		R. Free Europe, Germany	
	48.50	7.5		Colombo, Ceylon	
6190	48.47	25/100		Vatican State	
	48.47	10		R. Bremen, Germany	
	48.47	110	WLWO	Bethany, USA	
	48.47	0.1	HI9U	Broadc. Tropical, Dom. R.	
	48.47	0.3	OAX4G	R. Lima, Peru	

kc	m	kW	Call	Stations & countries	Rem.
6190	48.47	0.25	YNUW	R. Dario, Nicaragua	
	48.47	5	CE619	R. Corporacion, Chile	
	48.47	1	4XB44	Tel Aviv, Israel	
	48.47			Omsk, USSR	
	48.47	100		Bucharest, Rumania	
	48.47	1	YSUA	R. Mil Cincuenta, El Salv.	
	48.47	0.25	HCJC3	R. 18 de Noviembre, Ecuad.	
	48.47	10/100	VUD	AIR, Delhi, India	
	48.47	50		Sebaa-Aioun, Morocco	
6195	48.43	15/100		BBC, London, Gt. Britain	
	48.43	25		R. Andorra, Andorra	
	48.43	10		R. Burundi, Burundi	
	48.43	1	HJEZ	Voz de Cali, Colombia	
	48.43	1	4VHW	R. Haiti, Haiti	
	48.43	0.5	HRD2	Voz de Atlantida, Hond. R.	
	48.43	1	HCEH6	R. Cosmopolita, Ecuador	
	48.43			Pyongyang, Korea	
	48.43	10	PRD21	Emis. Continental, Brazil	
	48.43	1	CP23	Taria, Bolivia	
	48.43	0.5	OAZ4E	R. Mineria, Peru	
6198	48.40	0.25	OAX1B	R. Piura, Peru	
6200	48.39	1	YNJM	R. Norte, Nicaragua	
	48.39	0.1	TGKN	R. Latina, Guatemala	
	48.39	120/240		Peking, China	
	48.39	1	OAX7A	R. Cuzco, Peru	
			6210–7100 kc		
6210	48.31	120/240		Peking, China	
	48.31	50	HI3U	R. Caribe, Dom. Rep.	
6212	48.29	15/120		Peking, China	
6215	48.27	1	TIGPH	R. Monumental, Costa Rica	
6225	48.19	15/120		Peking, China	
6235	48.10	10/50		Karachi, Pakistan	
	48.10	1	OAX61	R. Universidad, Peru	
	48.10	0.5	HCNK3	R. Cariamanga, Ecuador	
6236	48.08	100		Budapest, Hungary	
6240	48.07	0.1		Mytilini, Greece	
	48.07	0.7/5		S. Isabel, Sp. Guinea	
6250	48.00			Pyongyang, Korea	
	48.00		HCVC3	R. Centinela del Sur, Ecuad.	
6255	47.96	0.5	TGRT	R. Nac. Tikal, Guatemala	
6260	47.92			Chinghai, China	
6268	47.88	2		AIR Ranchi, India	
6270	47.87	0.45	CP9	R. Amauta, Bolivia	
	47.87	0.3	HCVM6	R. Once de Nov., Ecuador	
	47.87	120/240		Peking, China	
6280	47.77			Sinkiang, China	
6299	47.62	1		Tec. Univ., Istanbul, Turkey	
6300	47.62	0.75	OBX4P	R. Miraflores, Peru	
	47.62	0.15	CP30	R. Libertad, Bolivia	
6305	47.58	10		Andorra, Andorra	
6307	47.51	1	HI8Z	R. Santiago, Dom. Rep.	
6325	47.43	0.25	HI5B	R. Libertad, Dom. Rep.	
6380	47.06			R. Thailand, Thailand	
6500	46.16			Chinghai, China	
6525	45.98	0.3		Carpenission, Greece	
6590	45.52	0.1		Chios, Greece	
6595	45.48	15/120		Peking, China	
6700	44.74	0.4		R. Sanandaj, Iran	
	44.74	0.3	OAX1A	R. Delcar, Peru	
6770	44.31			Alma Ata, USSR	
6790	44.18	15/120		Peking, China	
6795	44.14			Alma Ata, USSR	
6810	44.05	15/120		Peking, China	
6820	43.99			Minsk, USSR	
6825	43.96			Tashkent, USSR	
	43.96	15/120		Peking, China	
6840	43.85			Inner Mongolia, China	
6850	43.80	0.35		Warsaw, Poland	
6890	43.54	15/120		Peking, China	
6937	43.25			Yunnan, China	
6974	43.02			Inner Mongolia, China	
**6985	42.95		GIC26	Hailsham, Gt. Britain	
6995	42.89	1		R. Mediterraneo, Spain	
	42.89	15/120		Peking, China	
7000	42.86	1		R. Atlantico, Canary Isl.	
7010	42.80	10/50		Karachi, Pakistan	
7018	42.74	0.5		Istanbul Tec. Univ., Turkey	
7031	42.62	100		R. Iran, Iran	
7035	42.64	120/240		Peking, China	
7045	42.58	5	ZYP30	R. Emperial, Brazil	
7050	42.55	50/100		Cairo, Un. Arab Rep.	
	42.52			Sinkiang, China	
7065	42.46	120/240		Peking, China	
7075	42.40	50/100		Cairo, Un. Arab Rep.	
7080	42.37	120/240		Peking, China	
	42.37	1	HSQ	Bangkok, Thailand	
7085	42.32	100		R. Iran, Iran	
7092	42.30	20		R. Tirana, Albania	
7095	42.28	120/240		Peking, China	
	42.28	100	3AM5	Trans World Radio, Monaco	
			7100–7300 kc (41 m.b.)		
7100	42.25	15/120		Peking, China	
	42.25			Tashkent, USSR	
7105	42.22	10/100		R. Free Europe, Germany	
	42.22	5		R. Brazzaville, Congo	
	42.22	10/100	VUD	AIR, Delhi, India	
	42.22	1	CR6RO	R. Clube do Bie, Angola	
	42.22	30		R. Niger, Niger	
	42.22	100		R. Nacional, Spain	
7110	42.19	10/35		Colombo (VOA), Ceylon	
	42.19	35/100		Tangier (VOA), Morocco	
	42.19	15/100		BBC, London, Gt. Britain	
	42.19	5/8		Kampala, Uganda	
	42.19	7.5/100		BBC, Singapore	
	42.19	10		Rawalpindi, Pakistan	
	42.19	20	YDP3	Medan, Indonesia	
7115	42.16	120/240		Peking, China	
	42.16	10/100		R. Free Europe, Germany	
	42.16	10		Sebaa-Aioun, Morocco	
7118	42.14	10	YDU6	Denpassar, Indonesia	
7120	42.13	15/100		BBC, London, Gt. Britain	
	42.13	10/100	VUD	AIR, Delhi, India	
7125	42.11	6		Nairobi, Kenya	
	42.11	18		R. Nationale, Guinea (Rep.)	
	42.11	7.5/100		Warsaw, Poland	
	42.11	120/240		Peking, China	
7130	42.08	15/100		BBC, London, Gt. Britain	
	42.08	1/50		Taipei (BCC), Taiwan	
	42.08	20/50		R. Liberty, Germany	
	42.08	100	CSA55	R. Nacional, Portugal	
	42.08	10/50		Karachi, Pakistan	
	42.08	10		Peshawar, Pakistan	
	42.08	35		Courier (VOA), Greece	
7132	42.06			Kiev, USSR	
7135	42.05	15/100		BBC, London, Gt. Britain	
	42.05	7.5/50		Malolos (VOA), Philipp.	
	42.05	7.5/100		BBC, Singapore	
	42.05	120/240		Peking, China	
7140	42.02	15/100		BBC, London, Gt. Britain	
	42.02	50/100		Cairo, Un. Arab Rep.	
	42.02	7.5/20		BBC, Cyprus	
	42.02	30	3AM4	R. Monte Carlo, Monaco	
	42.02	10/100		R. Free Europe, Germany	
	42.02	1	YDR2	Ambon, Indonesia	
	42.02	5/7.5		R. Athens, Greece	
	42.02	10		AIR, Hyderabad, India	
	42.02	0.5	CR6RA	R. Clube de Angola, Angola	
7142	42.01			R. Dalat, Vietnam (Rep.)	
7145	41.99	10/100		R. Free Europe, Germany	
	41.99	1	HSK6	R. Thailand, Thailand	
	41.99	50		R. Mali, Mali	
	41.99	7.5/100		Warsaw, Poland	
	41.99	1/10		R. Lao, Laos	
7150	41.96	15/100		BBC, London, Gt. Britain	
	41.96	0.3		Jannina, Greece	
	41.96			R. Katanga, Congo	
	41.96	120/240		Peking, China	
	41.96	6		Nairobi, Kenya	
	41.96	5		R. Mogadiscio, Somali	
7155	41.92	4		Tananarive, Malgache Rep.	
	41.92	100		Amman, Jordan	
	41.92	10/100		R. Free Europe, Germany	
	41.92	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.92	10/100	VUD	AIR, Delhi, India	
7156	41.91	20		Elisabethville, Congo Rep.	
7160	41.90	10/100		Allouis, France	
	41.90	1	CR6RD	Nova Lisboa, Angola	
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.90	1	DUA9	R. University, Philipp.	
	41.90	120/240		Peking, China	
	41.90	35/100		Tangier (VOA), Morocco	
	41.90	10/100		AIR, Madras, India	
	41.90	7.5		R. Sarawak, Sarawak	
7161	41.89	0.5		Serrai, Greece	
7165	41.87	10/100		R. Free Europe, Germany	
	41.87	7.5		Aden, Aden	
	41.87	20		Dar-es-Salaam, Tanganyika	
7170	41.84	10/100	VUD	AIR, Delhi, India	
	41.84	1	CR6RD	Nova Lisboa, Angola	
	41.84	22.5		R. Singapore, Singapore	
	41.84	20/50		R. Liberty, Germany	
	41.84	4		Noumea, New Caledonia	
	41.84	50		Algier 4, Algeria	
	41.84	15/120		Peking, China	

kc	m	kW	Call	Stations & countries	Rem.
7175	41.81	10/100		R. Free Europe, Germany	
	41.81			Kiev, USSR	
	41.81	1	CR6RS	Lobito, Angola	
	41.81	10		Gwelo, Rhodesia	
	41.81			Caltanissetta, Italy	
	41.81	35/100		Poro (VOA), Philippines	
	41.81	4		Noumea, New Caledonia	
	41.81	25		R. Congo, Congo	
7180	41.78	1	BEG23	Taipei, Taiwan	
	41.78	120/240		Peking, China	
	41.78	10/100		R. Free Europe, Germany	
	41.78	50		Baghdad, Iraq	
	41.78	50/100		Cairo, Un. Arab Rep.	
	41.78	10/100	VUD	AIR, Delhi, India	
7185	41.75	15/100		BBC, London, Gt. Britain	
	41.75			Kiev, USSR	
	41.75	100	3AM5	Trans World Radio, Monaco	
	41.75	20		Paradys, So. Africa	
	41.75	10/100	VUD	AIR, Delhi, India	
7189	41.73	20	4XB49	Tel Aviv, Israel	
7190	41.72	35		Colombo, Ceylon	
	41.72	10/50/100		R. Australia, Australia	
	41.72	10/100	VUD	AIR, Delhi, India	
	41.72	1	HLK30	Seoul, Korea	
	41.72	10/100		R. Free Europe, Germany	
7195	41.70	100		Bucharest, Rumania	
	41.70	10/100		R. Japan, Japan	
	41.70	5/8		Kampala, Uganda	
	41.70	50		Monrovia (VOA), Liberia	
	41.70	15/120		Peking, China	
7200	41.67	15/100		BBC, London, Gt. Britain	
	41.67	1/50	OEI31	Wien, Austria	
	41.67	3.5	BEC76	Taipei, Taiwan	
	41.67	35/50/100		Tangier (VOA), Morocco	
	41.67	0.25	OQ2AC	R. Collége, Congo	
	41.67	10/100		R. Belgrade, Yugoslavia	
	41.67	10		R. Malaya, Malaya	
	41.67	120/240		Peking, China	
	41.67	7.5/20		Omdurman, Sudan	
7205	41.64			R. Hué, Vietnam (Rep.)	
	41.64	10/100		R. Free Europe, Germany	
	41.64	20/100	DMQ7	D. Welle, Germany	
	41.64	5	CR7RB	R. Pax, Mozambique	
	41.64	35		Thessaloniki (VOA), Greece	
	41.64	120/240		Peking, China	
	41.64			Kiev, USSR	
	41.64	30		Yaounde, Cameroon	
7210	41.61	25/100	HEI3	Schwarzenburg, Switzerland	
	41.61	120/240		Peking, China	
	41.61	0.25/10	VUC	AIR, Calcutta, India	
	41.61	15/100		BBC, London, Gt. Britain	
	41.61	5	YDH3	Semarang, Indonesia	
	41.61	0.2/100	LLS	R. Norway, Norway	
	41.61	10		Nairobi, Kenya	
	41.61			Irkutsk, USSR	
7215	41.58	1	BEC27	AFRS, Taiwan	
	41.58	35/50/10		Tangier (VOA), Morocco	
	41.58	25		R. Abidjan, Ivory Coast	
	41.58	100		Hörby, Sweden	
	41.58	0.5		Kozani (FBS), Greece	
7220	41.55	15/100		BBC, London, Gt. Britain	
	41.55	35/100		Poro (VOA), Philippines	
	41.55	10/50/100		R. Australia, Australia	
	41.55	20		Lusaka, Rhodesia	
	41.55	7.5	YDF5	Djakarta, Indonesia	
	41.55	100		Budapest, Hungary	
	41.55	30		Bangui, C. African Rep.	
7225	41.52	1/50		Taipei (BCC), Taiwan	
	41.52	10/100	VUD	AIR, Delhi, India	
	41.52			Szechuan, China	
	41.52	10/100		R. Free Europe, Germany	
	41.52	100		Bucharest, Rumania	
	41.52	1		Lahore, Pakistan	
	41.52	10		Sebaa-Aioun, Morocco	
7230	41.49	20		Paradys, So. Africa	
	41.49	5	JKH	Tokyo, Japan	
	41.49	15/100		BBC, London, Gt. Britain	
	41.49	1/50	OEI38	Wien, Austria	
	41.49	10/100	VUD	AIR, Delhi, India	
	41.49	0.35	CR6RM	Mocamedes, Angola	
	41.49	100		Hörby, Sweden	
	41.49	120/240		Peking, China	
	41.49	1	HSQ	Bangkok, Thailand	
	41.49	10		Hollandia, West New Guinea	
7235	41.47	10/100		R. Free Europe, Germany	
	41.47	100		Praha, Czechoslovakia	
	41.47	20/100	DMQ7	D. Welle, Germany	
7235	41.47	10		Colombo, Ceylon	
	41.47	50		Monrovia (VOA), Liberia	
	41.47	10/100	VUD	AIR, Delhi, India	
	41.47	25/100		Vatican State	
	41.47	35/100		Tangier (VOA), Morocco	
	41.47	35/100		Okinawa (VOA), Ryukyu Isl.	
7238	41.45	5		R. Clube de Mozambique	
7240	41.44	15/120		Peking, China	
	41.44	50/2	DZI9	Call of the Orient, Philipp.	
	41.44	0.2/100	LLR	R. Norway, Norway	
	41.44	1	CR6RE	Malanje, Angola	
	41.44	10/100		Belgrade, Yugoslavia	
	41.44	10/100	VUB	AIR, Bombay, India	
	41.44	10/100		Allouis, France	
	41.44	10		Nairobi, Kenya	
	41.44	1.5	BEC28	Taichung, Taiwan	
	41.44	10/100	VUD	AIR, Delhi, India	
	41.44	4		R. Garoua, Fr. Cameroon	
7245	41.41	4		R. Mauritania, Mauritania	
	41.41			Saigon, Vietnam	
	41.41	100	3AM5	Trans World Radio, Monaco	
	41.41	1/50	OEI33	Wien, Austria	
	41.41	4		St. Denis, Reunion	
	41.40	20/50		R. Liberty, Germany	
	41.41	10/100		R. Free Europe, Germany	
7249	41.38	7.5		R. Clube de Mozambique	
7250	41.38	15/100		BBC, London, Gt. Britain	
	41.38	50		Monrovia (VOA), Liberia	
	41.38	1/50		Taipei (BCC), Taiwan	
	41.38	25/100		Vatican State	
	41.38	15		R. Singapore, Singapore	
7255	41.35	120		R. Sofia, Bulgaria	
	41.35	35/50/100		Tangier (VOA), Morocco	
	41.35	0.3		Beira, Mozambique	
	41.36	20	YDJ2	Jogjakarta, Indonesia	
	41.36	5		Lagos, Nigeria	
7260	41.32	15/100		BBC, London, Gt. Britain	
	41.32	10/100	VUM	AIR, Madras, India	
	41.32	100	CSA22	R. Nacional, Portugal	
	41.32	100	3AM5	Trans World Radio, Monaco	
	41.32	4		Dzaoudzi, Comores Isl.	
	41.32	25		R. Ulan Bator, Mongolia	
7262	41.30	3.5	BEC71	Taipei, Taiwan	
7265	41.29	1.5		Bad Dürrheim (SWF), Ger.	
	41.29			Saigon, Vietnam	
	41.29	15/240		Peking, China	
	41.29			Erevan, USSR	
7270	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.27	35/100		Tangier (VOA), Morocco	
	41.27	1.5	BEC34	Hualien, Taiwan	
	41.27	4		R. Gabon, Gabon	
	41.27	12		Motala, Sweden	
	41.27	5		R. Sarawak, Sarawak	
	41.27	7.5/100		Warsaw, Poland	
	41.27	10		Lagos, Nigeria	
	41.27	120/240		Peking, China	
	41.27			Magadan, USSR	
	41.27	10/100	VUD	AIR, Delhi, India	
7275	41.24	50/60/100		R. Roma, Italy	
	41.24	20		Paradys, So. Africa	
	41.24	10/50		Karachi, Pakistan	
	41.24	35		Colombo (VOA), Ceylon	
	41.24	10/100	VUD	AIR, Delhi, India	
	41.24	100		Lagos, Nigeria	
7280	41.21	10		Dar-es-Salaam, Tanganyika	
	41.21	10/100		Allouis, France	
	41.21	15/100		BBC, London, Gt. Britain	
	41.21	1	CR6RD	Nova Lisboa, Angola	
	41.21	1.5	BEC24	Taipei, Taiwan	
	41.21	10		R. Malaya, Malaya	
	41.21	5		Tananarive, Malgache Rep.	
	41.21			Komsomolsk, USSR	
	41.21	1	DXH2	Mindanao, Philippines	
7285	41.18	100	TAS	R. Ankara, Turkey	
	41.18	5	JKI	Tokyo, Japan	
	41.18	10/100		R. Free Europe, Germany	
	41.18	1		Ibadan, Nigeria	
	41.18	0.2	CR6RP	Novo Redondo, Angola	
	41.18	10		Lusaka, Rhodesia	
7290	41.15	5		Kisumu, Kenya	
	41.15			Kiev, USSR	
	41.15	12	3WT12	Saigon, Vietnam (Rep.)	
	41.15	10/100	VUD	AIR, Delhi, India	
	41.15	50		R. Sofia, Bulgaria	
	41.15	10/50		Karachi, Pakistan	
	41.15	50/60/100		R. Roma, Italy	
	41.15	10		Addis Ababa, Ethiopia	

kc	m	kW	Call	Stations & countries	Rem.
7295	41.12	20	YDQ3	Makassar, Indonesia	
	41.12	5		R. Berlin Int., Germany	
	41.12	0.4	EAJ8AB	R. Cl. Tenerife, Canary Isl.	
	41.12	120/240		Peking, China	
	41.12	10/100		R. Free Europe, Germany	
	41.12	10		Accra, Ghana	
	41.12	5/7.5		R. Athens, Greece	
7300	41.09			R. Berlin Int., Ger. (DDR)	
7305	41.07	15/120		Peking, China	
	41.07			R. Thailand, Thailand	
				7310–9500 kc	
7310	41.03			Kiev, USSR	
7315	41.01	120/240		Peking, China	
	41.01	0.35		Warsaw, Poland	
7317	41.00	10		R. Dif. Nationale, Congo Re.	
7324	40.96			Kansu, China	
7325	40.96	15/100		BBC, London, Gt. Britain	
	40.96	120/240		Peking, China	
7330	40.93			Ashkhabad, USSR	
	40.93			Dushambe, USSR	
**7335	40.90	3	CHU	Dominion Obs., Canada	
	40.90	120/240		Peking, China	
7337	40.88	0.5	HJJM	La Voz de Colombia, Col.	
7345	40.85	100		Praha, Czechoslovakia	
7350	40.82	120/240		Peking, China	
7370	40.71	15/120		Peking, China	
7385	40.62			Sinkiang, China	
	40.62			Minsk, USSR	
	40.62	0.35		S. Cruz de la Palma, Canary I.	
**7397	40.56		GIC27	Hailsham, Gt. Britain	
7398	40.56	7		Damascus, Syria	
7480	40.08	240		Peking, China	
7500	40.00	15/100		Peking, China	
7530	39.80	1.5		Istanbul, Turkey	
7547	39.71		ZNX32	Bridgetown, Barbados	
7620	39.37	0.5	HSQ	Bangkok, Thailand	
	39.37	15/120		Peking, China	
7650	39.33	1		Erzurum, Turkey	
7670	39.11	50		R. Sofia, Bulgaria	
7850	38.20	5		Bata, Sp. Guinea	
7935	37.81	20	PSL	Agencia Nacional, Brazil	
7940	37.78	1.2		R. Alicante, Spain	
7948	37.75	1		Bissau, Port. Guinea	
8036	37.34	2		Beyruth, Lebanon	
8040	37.31	0.4		Rezaieh, Iran	
8500	35.29			R. Thailand, Thailand	
8900	33.70	0.2	HCJZ3	R. Fenix, Zaruma, Ecuador	
9009	33.03	7.5/50	4XB31	Tel Aviv, Israel	
9020	33.26	15/120		Peking, China	
9064	33.09	15/120		Peking, China	
9170	32.72	15/120		Peking, China	
9250	32.43			Alma Ata, USSR	
9340	32.12	15/120		Peking, China	
9350	32.09	1	OAX6D	R. Continental, Peru	
**	32.08		GIC29	Hailsham, Gt. Britain	
9360	32.04	50/100		R. Nacional, Spain	
9365	32.04			Inner Mongolia, China	
9370	32.02	100		R. Nacional, Spain	
9377	31.99			Khabarovsk, USSR	
9380	31.98			Alma Ata, USSR	
9390	31.90	1	OAX4J	R. La Cronica, Peru	
9400	31.89	5		R. Atlantico, Canary Isl.	
9410	31.88	15/100		BBC, London, Gt. Britain	
9412	31.86	1	OAX4W	R. America, Peru	
9457	31.73	120/240		Peking, China	
9470	31.68			Sinkiang, China	
9480	31.65	120/240		Peking, China	
9485	31.63			Sverdlovsk, USSR	
	31.63	50	HI4U	R. Caribe, Dom. Rep.	
9495	31.60	50/100		Cairo, Un. Arab Rep.	
				9500–9775 kc – 31 metre band	
9500	31.58			Magadan, USSR	
	31.58	120/240		Peking, China	
	31.58	0.25		Grenada, Windw. Isl.	
	31.58			Chinghai, China	
	31.58	5	CE950	Corp. Chilena, Chile	
	31.58	0.25	OAX6H	R. Tacna, Peru	
9502	31.57	1	CR6RF	R.Cl. de Benguela, Angola	
9505	31.56	100		Praha, Czechoslovakia	
	31.56	1.5	BEC32	Kaohsiung, Taiwan	
	31.56	5	CP38	R. Altiplano, Bolivia	
	31.56	10	PRB22	R. Record, Brazil	
	31.56	2.5		Gwelo, Rhodesia	
	31.56	50	HI4U	R. Caribe, Dom. Rep.	
	31.56	10/100	VUD	AIR, Delhi, India	
	31.56	10/100		R. Belgrade, Yugoslavia	
	31.56	0.25	HOLA	R. Atlantico, Panama	

kc	m	kW	Call	Stations & countries	Rem.
9505	31.56	10/100		R. Free Europe, Germany	
	31.56	10/100		R. Japan, Japan	
	31.56	50		Sebaa-Aioun, Morocco	
9508	31.55	7.5/20		Omdurman, Sudan	
9510	31.55	15/100		BBC, London, Gt. Britain	
	31.55	120/240		Peking, China	
	31.55	100		Bucharest, Rumania	
	31.55	15	YVXJ	R. Barquisimeto, Venezuela	
9515	31.53	4		Tananarive, Malgache Rep.	
	31.53	10	XEWW	Voz de la Am. Latina, Mex.	
	31.53	100	TAT	R. Ankara, Turkey	
	31.53	50/60/100		R. Roma, Italy	
	31.53			Caltanissetta, Italy	
	31.53	1	CR6RM	Mocamedes, Angola	
	31.53	10	CXA60	R. Sarandi, Uruguay	
9520	31.51	35		Colombo, Ceylon	
	31.51	2	VLT9	Port Moresby, New Guinea	
	31.51	50	OZF5	R. Denmark, Denmark	
	31.51	0.25		Grenada, Windw. Isl.	
	31.51	35/100		Tangier (VOA), Morocco	
	31.51			Minsk, USSR	
9525	31.50	15/100		BBC, London, Gt. Britain	
	31.50	1/50	OEI49	Wien, Austria	
	31.50	110	WLWO	Bethany, USA	
	31.50	10/100		R. Japan, Japan	
	31.50	7.5/100		Warsaw, Poland	
	31.50	0.25		Nampula, Mozambique	
	31.50	20		Paradys, So. Africa	
9530	31.48	100		Amman, Jordan	
	31.48	10/100	VUD	AIR, Delhi, India	
	31.48	10/100		R. Japan, Japan	
	31.48	15/100		BBC, London, Gt. Britain	
	31.48	10		Dar-es-Salaam, Tanganyika	
	31.48	1	YVMZ	Maracaibo, Venezuela	
	31.48	35		Courier (VOA), Greece	
	31.48	50/200	KCBR	Delano, USA	
	31.48	8/100		Munich (VOA), Germany	
	31.48	1	OAX6L	R. Nac. Tacna, Peru	
9535	31.46			Simferopol, USSR	
	31.46	35/100		Poro (VOA), Philippines	
	31.46	100	HER4	Schwarzenburg, Switzerland	
9540	31.45	10/50/100		R. Australia, Australia	
	31.45	0.5	OAX8I	Iquitos, Peru	
	31.45	25/100		Vatican State	
	31.45	1/50	OEI41	Wien, Austria	
	31.45	7.5	ZL2	Wellington, New Zealand	
	31.45	7.5/100		Warsaw, Poland	
9545	31.43	25/100	HED5	Schwarzenburg, Switzerland	
	31.43	50/200	KNBH	Dixon, USA	
	31.43	0.25	XEFT	La Voz de Vera Cruz, Mex.	
	31.43	0.5	OAX4K	R. Central, Peru	
	31.43	20/100	DMQ9	D. Welle, Germany	
	31.43	100	3AM5	Trans World Radio, Monaco	
	31.43	7.5	ZYS43	R. Emis. Paranaense, Brazil	
	31.43	50		R. Brazzaville, Congo	
	31.43	8/100		Munich (VOA), Germany	
	31.43	100		Accra, Ghana	
	31.43	35/50/100		Tangier (VOA), Morocco	
9550	31.41	100		Praha, Czechoslovakia	
	31.41	120/240		Peking, China	
	31.41	0.5	YDQ2	Makassar, Indonesia	
	31.41	15/100		BBC, London, Gt. Britain	
	31.41	10/100	VUB	AIR, Bombay, India	
	31.41	0.2/100	LLD	R. Norway, Norway	
	31.41	2	OAX1Z	R. Nac. Tumbes, Peru	
9555	31.40	5	YSS	R. Nacional, El Salvador	
	31.40	10	CP6	R. Illimani, Bolivia	
	31.40	15/100		BBC, London, Gt. Britain	
	31.40	120/240		Peking, China	
	31.40			Dushambe, USSR	
	31.40	50		Baghdad, Iraq	
	31.40	0.5	XETT	La Hora Exacta, Mexico	
	31.40	15	OIX2	Pori, Finland	
	31.40	7.5/100		BBC, Singapore	
9560	31.38	15/100		BBC, London, Gt. Britain	
	31.38	10/100		Allouis, France	
	31.38	100		Amman, Jordan	
	31.38	100		Colombo, Ceylon	
	31.38			R. Berlin Int., Germany	
	31.38	35/50/100		Tangier (VOA), Morocco	
	31.38			Kiev, USSR	
	31.38	120		R. Sofia, Bulgaria	
9562	31.37	40	OAX4R	R. Nacional Lima, Peru	
9565	31.37	7.5/50		Malolos (VOA), Philippines	
	31.36	20/50		R. Liberty, Germany	
	31.36	10/100	VUD	AIR, Delhi, India	
	31.36	100		R. Habana, Cuba	

kc	m	kW	Call	Stations & countries	Rem.
9570	31.35	1	OAX7F	R. Nac. Puno, Peru	
	31.35	1/10	YVOM	San Cristobal, Venezuela	
	31.35	10/50/100		R. Australia, Australia	
	31.35	10/100		Allouis, France	
	31.35	15/100		BBC, London, Gt. Britain	
	31.35	10		R. Kaduna, Nigeria	
	31.35	100		Bucharest, Rumania	
	31.35	2.5		Lusaka, Rhodesia	
	31.35	15/240		Peking, China	
	31.35	0.25	DUH3	Philipp. Br., Philipp.	
9575	31.33	50/60/100		R. Roma, Italy	
	31.33	10/100	VUD	AIR, Delhi, India	
	31.33	20/100	DMQ9	D. Welle, Germany	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil	
9577	31.33	0.4	OAX8Q	R. Pucallpa, Peru	
9580	31.32	10/50/100		R. Australia, Australia	
	31.32	15/100		BBC, London, Gt. Britain	
	31.32	35/100		Poro (VOA), Philippines	
9585	31.30	0.75	OBX4K	R. Selecta, Peru	
	31.30	10/100		Allouis, France	
	31.30	50	CKLP	R. Canada, Canada	
	31.30	7.5	ZYR56	R. Excelsior, Brazil	
	31.30	120/240		Peking, China	
	31.30	50	YDF6	Djakarta, Indonesia	
	31.30	10/100	VUD	AIR, Delhi, India	
9586	31.29	0.25		Porto Amelia, Mozambique	
9590	31.28	50/100		R. Nederland, Holland	
	31.28	1	OAX5C	R. Ica, Peru	
	31.28	10/100	VUM	AIR, Madras, India	
	31.28	100		R. Bucharest, Rumania	
	31.28	0.25	HI2G	R.dif. HIG, Dom. Rep.	
	31.28	120/240		Peking, China	
	31.28	7.5		Kampala, Uganda	
9595	31.27	10/100		R. Free Europe, Germany	
	31.27	50	JOZ3	Tokyo, Japan	
	31.27	10	CXA72	R. Monte Carlo, Uruguay	
	31.27	120/240		Peking, China	
9600	31.25	15/100		BBC, London, Gt. Britain	
	31.25	10	CE960	R. Pres. Balmaceda, Chile	
	31.25			Leningrad, USSR	
	31.25			R. Ayacucho, Peru	
	31.25	4		R. Congo, Congo	
	31.25			Tashkent, USSR	
	31.25	0.25	XEYU	Universidad Nac., Mexico	
	31.25	50/200	KCBR	Delano, USA	
9605	31.23	10/100		R. Free Europe, Germany	
	31.23	20/100	DMQ9	D. Welle, Germany	
	31.23	10/100		R. Japan, Japan	
	31.23	10/100	VUD	AIR, Delhi, India	
	31.23	50/200	KCBR	Delano, USA	
	31.23	1	CR6RE	Malanje, Angola	
	31.23	100		Hörby, Sweden	
	31.23	5	CP22	Potosi, Bolivia	
	31.23	5/7.5		R. Athens, Greece	
9607	31.23	0.25		La Voz de Panama, Panama	
9610	31.22	2/10	VLW/X9	Perth, Australia	
	31.22	50	CHLS	R. Canada, Canada	
	31.22	10		Addis Ababa, Ethiopia	
	31.22	30		R. Mauritania, Mauritania	
	31.22	10	ZYC8	R. Tupi, Brazil	
	31.22	1	OAX8C	R. Nac. Iquitos, Peru	
	31.22	0.2/100	LLG	R. Norway, Norway	
9612	31.21	1	CR6RI	R. Diamang, Angola	
9615	31.20	7.5		Dacca, Pakistan	
	31.20	35/50/100		Tangier (VOA), Morocco	
	31.20	15/100		BBC, London, Gt. Britain	
	31.20	3	TIRICA	Voz de la Victor, Costa Rica	
	31.20	50	WBOU	Bound Brook, USA	
	31.20	4		R. Tchad, Tchad	
	31.20	0.25	DUH4	Philipp. Br. Sce., Philipp.	
9618	31.19	0.4	OBX7E	R. El Sol, Peru	
9620	31.19	7.5	CR7DE	R. Clube de Mozambique	
	31.19	10/100	VUD	AIR, Delhi, India	
	31.19	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.19	10/100		Allouis, France	
	31.19	15/120		Peking, China	
	31.19			R. Saigon, Vietnam (Rep).	
	31.19	10/100		Belgrade, Yugoslavia	
	31.19	10	ZYR96	R. 9 de Julho, Brazil	
	31.19	100		Hörby, Sweden	
	31.19	20	CXA6	S.O.D.R.E., Uruguay	
9621	31.19	0.25		Quelimane, Mozambique	
9625	31.17	1	OAX8K	R. Atlantida, Peru	
	31.17	10/100	VUD	AIR, Delhi, India	
	31.17	10	XEBT	R.dif. XEB/XEBT, Mexico	
	31.17			Erevan, USSR	
	31.17	50	CKYU	R. Canada, Canada	
9625	31.17	15/100		BBC, London, Gt. Britain	
	31.17			Kiev, USSR	
9630	31.15	50	CKLO	R. Canada, Canada	
	31.15	10/100	VUD	AIR, Delhi, India	
	31.15	8/100		Munich (VOA), Germany	
	31.15	50/100		R. Nederland, Holland	
	31.15	1/50		Chiayi (BCC), Taiwan	
	31.15	50/60/100		R. Roma, Italy	
	31.15	50/100		Cairo, Un. Arab Republic	
9632	31.15	1	CR6RL	R. Clube de Angola, Angola	
9635	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.14	5	OCX4K	R. Expresso, Peru	
	31.14	0.25	4VVU	R. Lumiére, Haiti	
	31.14	7.5/50		Malolos (VOA), Philipp.	
	31.14	35/100		Tangier (VOA), Morocco	
	31.14	10/100	VUD	AIR, Delhi, India	
	31.14	100		Baghdad, Iraq	
9640	31.12	20/100	DMQ9	Deutsche Welle, Germany	
	31.12	15/100		BBC, London, Gt. Britain	
	31.12	10		Accra, Ghana	
	31.12	50	HLK5	Seoul, Korea	
	31.12	1	DZH2	Voice of the Philippines	
9645	31.10	2	TIFC	Faro del Caribe, Costa Rica	
	31.10	50		Monrovia (VOA), Liberia	
	31.10	0.2/100	LLH	R. Norway, Norway	
	31.10	7.5	ZYV40	R. Cultura de Pocos, Brazil	
	31.10	10/50		Karachi, Pakistan	
	31.10	25/100		Vatican State	
	31.10	0.3	HOJ53	R. Mia, Panama	
9650	31.09	110	WLWO	Bethany, USA	
	31.09	1	CE965	R. Yungay, Chile	
	31.09	20		Paradys, So. Africa	
	31.09			Komsomolsk, USSR	
	31.09	7.5/20		BBC, Cyprus	
	31.09	100		Honolulu (VOA), Hawaii	
	31.09	120/240		Peking, China	
9655	31.07	10/100		R. Free Europe, Germany	
	31.07	10		Kaduna, Nigeria	
	31.07	50/200	KCBR	Delano, USA	
	31.07	50	CKYS	R. Canada, Canada	
	31.07	5	JKH2	Tokyo, Japan	
9656	31.06	7.5	CR7CC	R. Clube de Mozambique	
9660	31.06	15	LRX	R. El Mundo, Argentina	
	31.06	20/50		R. Liberty, Germany	
	31.06	20		Paradys, So. Africa	
	31.06	10/50		ELWA, Liberia	
	31.06	10	VLQ9	Brisbane, Australia	
	31.06	15/100		BBC, London, Gt. Britain	
	31.06	120/240		Peking, China	
	31.06	25/100		Vatican State	
9665	31.04	1	CR6RD	Nova Lisboa, Angola	
	31.04	100	ETLF	Addis Ababa, Ethiopia	
	31.04	120/240		Peking, China	
	31.04			Kiev, USSR	
	31.04	100	HEU3	Schwarzenburg, Switzerland	
	31.04	50/200	KNBH	Dixon, USA	
	31.04	10		R. Nac. Brasilia, Brazil	
	31.04	1	OAX8U	R. Eco, Peru	
9670	31.02	5	TGNB	R. Cultural, Guatemala	
	31.02	100	CSA24	R. Nacional, Portugal	
	31.02	10/100		R. Free Europe, Germany	
	31.02	10/100	VUD	AIR, Delhi, India	
	31.02			R. Hué, Vietnam (Rep.)	
	31.02	35/100		Tangier (VOA), Morocco	
	31.02	50	WBOU	Bound Brook, USA	
	31.02	15/120		Peking, China	
9675	31.01	10	ZYT29	R. Diario da Manha, Brazil	
	31.01			R. Habana, Cuba	
	31.01	20/50		R. Liberty, Germany	
	31.01	1	CR6SG	R. Clube Huila, Angola	
	31.01	7.5/100		Warsaw, Poland	
	31.01	0.25	OCX4W	R. Inca, Peru	
	31.01	10/100		R. Japan, Japan	
	31.01	25/100		Vatican State	
	31.01	5		R. Somali, Somali	
	31.01	15/100		BBC, London, Gt. Britain	
9677	31.00			Kiev, USSR	
	31.00	20		Tirana, Albania	
9680	30.99	5/10	VRL/II9	Melbourne, Australia	
	30.99	100	CSA25	R. Nacional, Portugal	
	30.99	35/100		Tangier (VOA), Morocco	
	30.99	1	XEQ	R.dif. XEQ/XEQQ, Mexico	
	30.99	0.5	OBX4Y	R. Junin, Peru	
	30.99	10/100	VUD	AIR, Delhi, India	
9685	30.98	1	HOF31	Onda Popular, Panama	
	30.98	10	ZYR227	R. Gazeta, Brazil	
	30.98	50	XZK5	Rangoon, Burma	

kc	m	kW	Call	Stations & countries	Rem.
9685	30.98	1/50		Taipei (BCC), Taiwan	
	30.98	50		Algier 2, Algeria	
	30.98			Erevan, USSR	
9690	30.96	100	LRA32	R. Nacional, Argentina	
	30.96	15/100		BBC, London, Gt. Britain	
	30.96	7.5/100		BBC, Singapore	
	30.96	10/100	VUD	AIR, Delhi, India	
	30.96	1/50		Taipei (BCC), Taiwan	
	30.96	100		Lagos, Nigeria	
	30.96	120/240		Peking, China	
	30.96			Frunze, USSR	
9695	30.94	10/100		R. Free Europe, Germany	
	30.94	7.5	ZYB22	R. Rio Mar, Brazil	
	30.94	0.25	ZK3	Rarotonga, Cook Isl.	
	30.94	50/80	WRUL	Worldwide Br., N.Y., USA	
	30.94	50		R. Cambodge, Cambodia	
	30.94	10/100		R. Japan, Japan	
	30.94	1	OCX4Y	R. Continente, Peru	
9700	30.93	120		R. Sofia, Bulgaria	
	30.93	15/100		BBC, London, Gt. Britain	
	30.93	50/200	KNBH	Dixon, USA	
	30.93	10	CE970	La Voz de Chile, Chile	
	30.93	35/50		Poro (VOA), Philippines	
	30.93	50		R.dif. Nationale, Congo Rep.	
9705	30.91	50		R. Kabul, Afghanistan	
	30.91	20/100	ORU	Wavre, Belgium	
	30.91	10	ZYZ24	R. Maua, Brazil	
	30.91	10/100	VUD	AIR, Delhi, India	
	30.91	10/100		R. Free Europe, Germany	
9710	30.90	4		R. Niger, Niger	
	30.90	50	YDF6	Djakarta, Indonesia	
	30.90	110	WLWO	Bethany, USA	
	30.90	50	CHLR	R. Canada, Canada	
	30.90	15/100		BBC, London, Gt. Britain	
	30.90	50/60/100		R. Roma, Italy	
	30.90	10		Forest Side, Mauritius	
	30.90	1	OAX9D	R. Tropical, Peru	
	30.90	10/100		R. Free Europe, Germany	
	30.90	15/120		Peking, China	
9712	30.89	10	LRX2	R. El Mundo, Argentina	
9715	30.88	50/100		R. Nederland, Holland	
	30.88	50/100		Cairo, Un. Arab Republic	
	30.88	10/100		R. Free Europe, Germany	
	30.88	10/100	VUD	AIR, Delhi, India	
	30.88	35		Thessaloniki (VOA), Greece	
	30.88	50		R. Congo, Congo	
	30.88	1	CP21	R. La Plata, Bolivia	
	30.88	15/120		Peking, China	
9720	30.86	50	PRL7	R. Nacional, R. de Jan., Br.	
	30.86	1/50		Taipei (BCC), Taiwan	
	30.86			Nhatrang, Vietnam (Rep.)	
	30.86	10/100	VUD	AIR, Delhi, India	
	30.86	20		Paradys, So. Africa	
	30.86	10/100		R. Free Europe, Germany	
	30.86	35/100		Tangier (VOA), Morocco	
9725	30.85	15/100		BBC, London, Gt. Britain	
	30.85	7.5/100		BBC, Singapore	
	30.85	10/100		R. Free Europe, Germany	
	30.85	20	4XB51	Tel Aviv, Israel	
	30.85			Komsomolsk, USSR	
	30.85	100		R. Berlin Int., Germ. (DDR)	
9730	30.83	50		Leipzig, Germany (DDR)	
	30.83	7.5	ZYU59	R. Soc. Farroupilha, Brazil	
	30.83	10/2	DZH7	Call of the Orient, Philipp.	
	30.83	20/50		R. Liberty, Germany	
	30.83	50/100		R. Nederland, Holland	
	30.83	7		R. Brazzaville, Congo	
	30.83	10/100	VUD	AIR, Delhi, India	
9735	30.82	15/100		BBC, London, Gt. Britain	
	30.82	10		Gwelo, Rhodesia	
	30.82	15/120		Peking, China	
	30.82	20/100	DMQ9	Deutsche Welle, Germany	
	30.82	10	ZPA2	R. Nacional, Paraguay	
9740	30.80	10/50		Karachi, Pakistan	
	30.80	100		Amman, Jordan	
	30.80	110	WLWO	Bethany, USA	
	30.80	50	CHFO	R. Canada, Canada	
	30.80	15/100		BBC, London, Gt. Britain	
	30.80	100	CSA27	R. Nacional, Portugal	
	30.80	100	ETLF	Addis Ababa, Ethiopia	
	30.80	25/100		Vatican State	
	30.80	35/50/100		Tangier (VOA), Morocco	
	30.80	10/100	VUD	AIR, Delhi, India	
	30.80	10/100		R. Japan, Japan	
	30.80	10	LRS1	R. Splendid, Argentina	
9745	30.78	100/20	ORU	Wavre, Belgium	
	30.78	50/100		R. Nederland, Holland	

kc	m	kW	Call	Stations & countries	Rem.
9745	30.78	20	TAP	R. Ankara, Turkey	
	30.78	1/30	HCJB	Voz de los Andes, Ecuador	
	30.78	7.5	ZYR57	R. Cultura, Brazil	
	30.78	4		R. Mali, Mali	
9750	30.77	10/100		R. Free Europe, Germany	
	30.77	15/100		BBC, London, Gt. Britain	
	30.77			Khabarovsk, USSR	
	30.77	50/100		Cairo, Un. Arab Rep.	
	30.77	1	DZH3	R. Philippines, Philipp.	
	30.77	10/100	VUD	AIR, Delhi, India	
	30.77	10/50		Karachi, Pakistan	
	30.77	50	WBOU	Bound Brooks, USA	
	30.77	50		Monrovia (VOA), Liberia	
9755	30.76	10/100		Allouis, France	
	30.76	7.5	ZYW23	R. Brazil Central, Brazil	
	30.75	15/100		BBC, London, Gt. Britain	
	30.76	120/240		Peking, China	
	30.76	50	WDSI	Wayne, USA	
	30.76	50/100		Cairo, Un. Arab Rep.	
9760	30.74	15/100		BBC, London, Gt. Britain	
	30.74			R. Hanoi, Vietnam (Dem. R.)	
	30.74	0.3		Diyarbakir, Turkey	
	30.74	1/100	ETLF	Addis Ababa, Ethiopia	
	30.74	10	TGWA	R. Nacional, Guatemala	
	30.74			Erevan, USSR	
	30.74	35/100		Tangier (VOA), Morocco	
	30.74	10	LRY	R. Belgrano, Argentina	
9765	30.72	15/120		Peking, China	
	30.72	8/100		Munich (VOA), Germany	
	30.72	15/100		BBC, London, Gt. Britain	
	30.72	1	CR6RZ	R. Angola, Angola	
	30.72	10/100	VUD	AIR, Delhi, India	
9770	30.71	15/100		BBC, London, Gt. Britain	
	30.71	1/50	OEI47	Wien, Austria	
	30.71	1	PRL4	R.dif. Educative, Brazil	
	30.71	1	OAX80	R. Amazonas, Peru	
	30.71	110	WLWO	Bethany, USA	
	30.71	35/100		Poro (VOA), Philipp.	
	30.71	7.5/50		Malolos (VOA), Philipp.	
	30.71	100		R. Budapest, Hungary	
	30.71	0.3		Iskenderun, Turkey	
	30.71	0.5	4VEH	R. St. 4VEH, Haiti	
	30.71	7/50		R. Brazzaville, Congo	
				9775–11700 kc	
9775	30.69	3.5	BEC62	Taipei, Taiwan	
	30.69	120/240		Peking, China	
	30.69	7.5	ZYW23	R. Brasil Central, Brazil	
9780	30.67			Kansu, China	
	30.67	50/100		Cairo, Un. Arab Republic	
9785	30.66	120/240		Peking, China	
9790	30.64			Leningrad Lvov, USSR	
9795	30.63	100		Praha, Czechoslovakia	
9800	30.61	120/240		Peking, China	
9825	30.53	15/100		BBC, London, Gt. Britain	
9833	30.51	100		Budapest, Hungary	
9840	30.49			Baku, USSR	
	30.49			Hanoi, Vietnam (Dem. R.)	
9860	30.43	15/240		Peking, China	
9865	30.40	50	YDF8	Djakarta, Indonesia	
9915	30.26	15/100		BBC, London, Gt. Britain	
9920	30.24	15/240		Peking, China	
9945	30.17	15/240		Peking, China	
9965	30.11	120/240		Peking, China	
9972	30.08	12/120		Peking, China	
9990	30.02			Yunnan, China	
*10000	30.00	2	WWVH	Puunene, Hawaii	
*	30.00	0.5	MSF	Teddington, Gt. Britain	
*	30.00	2	JJY	Tokyo, Japan	
*	30.00	9	WWV	Lanham, USA	
*	30.00	20	RWM	Moscow, USSR	
*	30.00		BPV	Peking, China	
*	30.00	2	LOL	Buenos Aires, Argentina	
*	30.00	0.25	ZUO	Johannesburg, So. Africa	
*	30.00	2	ATA	New Delhi, India	
10150	29.66	0.5	HJJN	La Voz de Colombia, Col.	
10220	29.35	20	PSH	Agencia Nacional, Brazil	
10245	29.28			Sinkiang, China	
10260	29.24	15/120		Peking, China	
**10331	29.05		GPB30B	Hailsham, Gt. Britain	
**10332	29.04		GPB30A	Hailsham, Gt. Britain	
10530	28.50			Alma Ata, USSR	
10885	27.60	25		Ulan Bator, Mongolia	
11015	27.25		ZNX49	Bridgetown, Barbados	
11040	27.17			Inner Mongolia, China	
11100	27.03	15/120		Peking, China	
11290	26.57	15/120		Peking, China	
11455	26.19	15/120		Peking, China	

kc	m	kW	Call	Stations & countries	Rem.
11505	26.08	120/240		Peking, China	
11515	26.00	15/120		Peking, China	
11630	25.79			Leningrad, USSR	
	25.79	15/120		Peking, China	
11650	25.75	120/240		Peking, China	
	25.75	10		Dacca, Pakistan	
11660	25.73	15/120		Peking, China	
11672	25.70	10/50		Karachi, Pakistan	
11675	25.70	15/240		Peking, China	
11680	25.68	15/100		BBC, London, Gt. Britain	
11690	25.66	15/240		Peking, China	
	25.66			Khabarovsk, USSR	
		11700–11975 kc – 25 metre band			
11700	25.64	1	TGQB	R. Nacional, Guatemala	
	25.64			Kiev, USSR	
	25.64	0.25		Grenada, Windw. Isl.	
11705	25.63	10/100		R. Japan, Japan	
	25.63	100		Hörby, Sweden	
	25.63	15/100		BBC, London, Gt. Britain	
	25.63	50	CKXA	R. Canada, Canada	
11710	25.62	10/50/100		R. Australia, Australia	
	25.62	35/50/100		Tangier (VOA), Morocco	
	25.62	7/50		R. Brazzaville, Congo	
	25.62	10/100	VUD	AIR, Delhi, India	
	25.62	50/100		R. Nederland, Holland	
11715	25.61	50/200	KCBR	Delano, USA	
	25.61	20/100	DMQ11	Deutsche Welle, Germany	
	25.61	100	HEI5	Schwarzenburg, Switzerland	
	25.61	100	YDF2	Djakarta, Indonesia	
	25.61	120/240		Peking, China	
	25,61	100		Beyruth, Lebanon	
	25.61	10/100	VUD	AIR, Delhi, India	
11720	25.60	5/7.5		Radio Athens, Greece	
	25.60	50	CHOL	R. Canada, Canada	
	25.60	0.25		R. Léo, Congo	
	25.60	7.5/20		BBC, Cyprus	
	25.60	10/100	VUD	AIR, Delhi, India	
	25.60	10	PRL8	R. Nac. Brasilia, Brazil	
11725	25.59	100		Praha, Czechoslovakia	
	25.58	10/100		R. Free Europe, Germany	
	25.58	10/100		R. Japan, Japan	
	25.58	15/100		BBC, London, Gt. Britain	
	25.58	1	YSY	R. Victoria, El Salvador	
	25.58	7/50		R. Brazzaville, Congo	
	25.59	7.5/100		BBC, Singapore	
	25.58	1	YVLK	R. Rumbos, Venezuela	
11730	25.58	15/100		BBC, London, Gt. Britain	
	25.58	35/100		Poro (VOA), Philippines	
	25.58	120/240		Peking, China	
	25.58	10		Dacca, Pakistan	
	25.58	100	LRA35	R. Nacional, Argentina	
	25.58	50/100		R. Nederland, Holland	
	25.58			Petropavlovsk, USSR	
	25.58	10/100	VUD	AIR, Delhi, India	
11735	25.56	10/100	LKQ	R. Norway, Norway	
	25.56	10/100		R. Belgrade, Yugoslavia	
	25.56	5	CXA7	R. Oriental, Uruguay	
	25.56	10/100		R. Free Europe, Germany	
	25.56	7.5	ZYW28	R. Cl. de Goiania, Brazil	
	25.56	50		Tangier, Morocco	
11740	25.55	10/50/100		R. Australia, Australia	
	25.55	5	CE1174	R. Nuevo Mundo, Chile	
	25.55	25/100		Vatican State	
	25.55	120/240		Peking, China	
	25.55			Kiev, USSR	
	25.55	10/100	VUD	AIR, Delhi, India	
11745	25.54	10/100		R. Free Europe, Germany	
	25.54	50/100		Cairo, Un. Arab Republic	
	25.54	100		Praha, Czechoslovakia	
11750	25.53	15/100		BBC, London, Gt. Britain	
	25.53	7.5/100		BBC, Singapore	
	25.53	10		Tokyo (FEN), Japan	
	25.53	120/240		Peking, China	
	25.53	20		Damascus, Syria	
11755	25.52	10/100		R. Free Europe, Germany	
	25.52	10	ZYZ28	R. Mayrink Veiga, Brazil	
	25.52			Komsomolsk, USSR	
	25.52	1	CR6BR	R. Ecclesia, Angola	
	25.52	50/100		R. Nederland, Holland	
	25.52			Petropavlovsk, USSR	
	25.52	50		R.dif. Nationale, Congo Rep.	
11760	25.51	10/50/100		R. Australia, Australia	
	25.51	50	CKRA	R. Canada, Canada	
	25.51	10/100		R. Free Europe, Germany	
	25.51	35		Thessaloniki (VOA), Greece	
	25.51	10/100	VUD	AIR, Delhi, India	
	25.51	7.5		R. Clube de Mozambique	
11765	25.50	25	ZYB8	R. Tupi, São Paulo, Brazil	
	25.50	1	CP39	La Cruz del Sur, Bolivia	
	25.50	20/50		R. Liberty, Germany	
	25.50			R. Berlin Int., Germany	
11770	25.49	15/100		BBC, London, Gt. Britain	
	25.49	50		Monrovia (VOA), Liberia	
	25.49	7.5	YDE	Djakarta, Indonesia	
	25.49	20/100	VUD	AIR, Delhi, India	
	25.49	110	WLWO	Bethany, USA	
	25.49	8/100		Munich (VOA), Germany	
	25.49	35		Colombo, Ceylon	
11775	25.48	10	CP7	R. Illimani, Bolivia	
	25.48	10/100		R. Free Europe, Germany	
	25.48	20/50		R. Liberty, Germany	
11780	25.47	10/100		R. Japan, Japan	
	25.47	7	TFJ	Reykjavik, Iceland	
	25.47	7.5	ZL3	Wellington, New Zealand	
	25.47	30	LRY	R. Belgrano, Argentina	
	25.47	0.5	XENN	R.dif. XEN/XENN, Mexico	
	25.47	50/100		R. Nederland, Holland	
	25.47	15/100		BBC, London, Gt. Britain	
	25.47	10/100	VUD	AIR, Delhi, India	
	25.47	120/240		Peking, China	
11785	25.46			Kiev, USSR	
	25.46	20/100	DMQ11	Deutsche Welle, Germany	
	25.46	1/50	OEI52	Wien, Austria	
	25.46	35/50/100		Tangier (VOA), Morocco	
	25.46	7.5	ZYU61	R. Cuaiba, Brazil	
	25.46	10/100	VUD	AIR, Delhi, India	
	25.46	100	YDF2	Djakarta, Indonesia	
	25.46	7.5/50		Malolos (VOA), Philipp.	
11790	25.45	15/100		BBC, London, Gt. Britain	
	25.45	50/200	KCBR	Delano, USA	
	25.45	10/100	VUD	AIR, Delhi, India	
	25.45	100	3AM5	Trans World Radio, Monaco	
	25,45	10/50/100		R. Australia, Australia	
	25.45	10/50		ELWA, Liberia	
11795	25.43	20/100	DMQ11	Deutsche Welle, Germany	
	25.43			R. Berlin Int., Germ. (DDR)	
	25.43	10		R. Nacional, Rio de Jan., Br.	
	25.43	50		R.dif. Nationale, Congo Rep.	
	25.43	20	YDF3	Djakarta, Indonesia	
11800	25.42	7.5/100		Warsaw, Poland	
	25.42	1	CE1180	Soc. Nac. de Agricult., Chile	
	25.42	15/100		BBC, London, Gt. Britain	
	25.42	120/240		Peking, China	
	25.42	100		Accra, Ghana	
	25.42	10/100	VUD	AIR, Delhi, India	
	25.42	50/100		R. Nederland, Holland	
	25.42	10/100		R. Japan, Japan	
11805	25.41	50/60/100		R. Roma, Italy	
	25.41	100		Hörby, Sweden	
	25.41	10/100		R. Free Europe, Germany	
	25.41	10	ZYZ36	R. Globo, Brazil	
	25.41	10/100	VUD	AIR, Delhi, India	
	25.41	110	WLWO	Bethany, USA	
	25.41	20/100	ORU	Wavre, Belgium	
	25.41	50	WBOU	Bound Brook, USA	
	25.40	10	OIX8	Pori, Finland	
11810	25.40	10/50/100		R. Australia, Australia	
	25.40	10/100	VUD	AIR, Delhi, India	
	25.40	50/60/100		R. Roma, Italy	
	25.40	100		Bucharest, Rumania	
	25.40	7.5		Amman, Jordan	
11815	25.39	10/100		R. Free Europe, Germany	
	25.39	10/100		R. Japan, Japan	
	25.39	100		R. Nacional, Spain	
	25.39	7.5	ZYW24	R. Brazil Central, Brazil	
11820	25.38	15/100		BBC, London, Gt. Britain	
	25.38	100		R. Abidjan, Ivory Coast	
	25.38	120/240		Peking, China	
	25.38	0.15	XEBR	El Heraldo de Sonora, Mex.	
	25.38			Kiev, USSR	
	25.38			Magadan, USSR	
	25.38	10/100		R. Free Europe, Germany	
11822	25.36	2.5		Lusaka, Rhodesia	
11825	25.37	50		R. Televisora Nac., Colombia	
	25.37	35/100		Tangier (VOA), Morocco	
	25.37	10/50		ELWA, Liberia	
	25.37	1/50		Taipei (BCC), Taiwan	
	25.37	4		Papeete, Tahiti	
	25.37	20/50		R. Liberty, Germany	
	25.37	100	YDF2	Djakarta, Indonesia	
11830	25.36	50	WGEO	Schenectady, USA	
	25.36	10/100	VUD	AIR, Delhi, India	
	25.36	10/100		R. Free Europe, Germany	
11835	25.35	5	CXA19	El Espectador, Uruguay	

kc	m	kW	Call	Stations & countries	Rem.
11835	25.35	35		Colombo (VOA), Ceylon	
	25.35	50/200	KNBH	Dixon, USA	
	25.35	50		Algier I, Algeria	
	25.35	2.5	4VEJ	R. St. 4VEH, Haiti	
11840	25.34	100	CSA31	R. Nacional, Portugal	
	25.34	10/50/100		R. Australia, Australia	
	25.34	15/100		BBC, London, Gt. Britain	
	25.34			Khabarovsk, USSR	
	25.34	10/100	VUD	AIR. Delhi. India	
	25.34			Hanoi, Vietnam (Dem. R.)	
	25.34	0.25	DUH5	Philipp. Br., Philipp.	
	25.34	8/100		Munich (VOA), Germany	
	25.34	7.5/100		Warsaw, Poland	
11845	25.33	10/100		Allouis, France	
11850	25.32	10/100	VUD	AIR, Delhi, India	
	25.32	3	ZPA3	R. Teleco, Paraguay	
	25.32	20/100	ORU	Wavre, Belgium	
	25.32	10/100	LLK	R. Norway, Norway	
	25.32			Komsomolsk, USSR	
	25.32	2	CE1185	R. Cruz del Sur, Chile	
	25.32	120		R. Sofia, Bulgaria	
11855	25.31	10/100		R. Free Europe, Germany	
	25.31	10/100		R. Japan, Japan	
	25.31	7.5/20		Omdurman, Sudan	
	25.31	50/80	WRUL	Worldwide Br., N.Y., USA	
	25.31	50/4	DZH8	Call of the Orient, Philipp.	
11860	25.30	15/100		BBC, London, Gt. Britain	
	25.30	15/240		Peking, China	
	25.30	1	XELZZ	R. Novedades, Mexico	
	25.30			Kiev, USSR	
	25.30	20/50		R. Liberty, Germany	
	25.30	1/50		Taipei (BCC), Taiwan	
11865	25.28	100	HER5	Schwarzenburg, Switzerland	
	25.28	7.5	PRA8	R. Cl. de Pernambuco, Brazil	
	25.28	20		Paradys, So. Africa	
	25.28	10		Dacca, Pakistan	
11870	25.27	100		Amman, Jordan	
	25.27	0.25		UNOC, Congo	
	25.27	50/200	KCBR	Delano, USA	
	25.27	50/200	KNBH	Dixon, USA	
11875	25.26	35/100		Tangier (VOA), Morocco	
	25.26	10	CSA58	R. Nacional, Portugal	
	25.26	100		R. Habana, Cuba	
	25.26	110	WLWO	Bethany, USA	
	25.26	10/100		R. Japan, Japan	
	25.26	100		R. Katanga, Congo	
	25.26	10/100	VUD	AIR. Delhi, India	
11880	25.25	110	WLWO	Bethany, USA	
	25.25	10	LRS	R. Splendid, Argentina	
	25.25	10	VLH11	Melbourne, Australia	
	25.25	25/100		Vatican State	
	25.25	10/50/100		R. Australia, Australia	
	25.25	100	ETLF	Addis Ababa, Ethiopia	
	25.25	50	WBOU	Bound Brook, USA	
	25.25	35		Thessaloniki (VOA), Greece	
	25.25	15/100		BBC, London, Gt. Britain	
	25.25	5	XEHH	R.dif. Comerciales, Mexico	
	25.25	100		Hörby, Sweden	
11882	25.25	2.5		Lusaka, Rhodesia	
11885	25.24	10/100		R. Free Europe, Germany	
	25.24	10/100		Allouis, France	
	25.24			Leningrad, USSR	
	25.24	10/50		Karachi, Pakistan	
	25.24	120/240		Peking, China	
	25.24	10	CXA 68	R. Sarandi, Uruguay	
11890	25.23	15/100		BBC, London, Gt. Britain	
	25.23			Kiev, USSR	
	25.23	8/100		Munich (VOA), Germany	
	25.23	10/100	VUD	AIR, Delhi, India	
11895	25.22	10/100	VUD	AIR, Delhi, India	
	25.22	10/100		R. Free Europe, Germany	
	25.22	100		R. Budapest, Hungary	
	25.22	35/100		Poro (VOA), Philippines	
11900	25.21	20		Paradys, So. Africa	
	25.21	35/100		Poro (VOA), Philippines	
	25.21	20	CXA10	S.O.D.R.E., Uruguay	
	25.21			Petropavlovsk, USSR	
	25.21	50	WDSI	Wayne, USA	
	25.21	50	CKEX	R. Canada, Canada	
	25.21	5	CE1190	La Voz de Chile, Chile	
11905	25.20	50/60/100		R. Roma, Italy	
	25.20	50	WBOU	Bound Brook, USA	
	25.20	20/100	DMQ11	Deutsche Welle, Germany	
	25.20	15/100		BBC, London, Gt. Britain	
11910	25.19	15/100		BBC, London, Gt. Britain	
	25.19	100		R. Budapest, Hungary	
	25.19	0.5/50	HSK7/9	R. Thailand, Thailand	

kc	m	kW	Call	Stations & countries	Rem.
11910	25.19	15/240		Peking, China	
	25.19	10/50		Karachi, Pakistan	
11915	25.18	30	HCJB	Voz de los Andes, Ecuador	
	25.18	10/100		R. Free Europe, Germany	
	25.18	50/100		R. Nederland, Holland	
	25.18	100	CSA30	R. Nacional, Portugal	
	25.18	7.5	PRC20	R. Soc. Gaucha, Brazil	
	25.18	50/100		Cairo, Un. Arab Republic	
11920	25.17	10/100		Allouis, France	
	25.17	20/50		R. Liberty, Germany	
	25.17			Saigon, Vietnam (Rep.)	
	25.17	15/100		BBC, London, Gt. Britain	
	25.17	50/4	DZF2	Call of the Orient, Philipp.	
	25.17	10/100	VUD	AIR, Delhi, India	
11925	25.16	10	ZYR78	R. Bandeirantes, Brazil	
	25.16	20/100	DMQ11	Deutsche Welle, Germany	
	25.16			Tashkent, USSR	
	25.16	20/50		R. Liberty, Germany	
	25.16	50	HLK6	Seoul, Korea	
	25.16	1	CR6RD	Nova Lisboa, Angola	
	25.16	100	CSA71	R. Nacional, Portugal	
	25.16	5/7.5		R. Athens, Greece	
	25.16	25/100		Vatican State	
11930	25.15	15/100		BBC, London, Gt. Britain	
	25.15	1/100	ETLF	Addis Ababa, Ethiopia	
	25.15	50/100		Cairo, Un. Arab Republic	
	25.15	100	CSA72	R. Nacional, Portugal	
	25.15			Erevan, USSR	
	25.15	10/100		R. Free Europe, Germany	
11935	25.14	15/120		Peking, China	
	25.14	50/100		R. Nederland, Holland	
	25.14	20/50		R. Liberty, Germany	
11940	25.13	100		Bucharest, Rumania	
	25.13	10/100		R. Free Europe, Germany	
	25.13	25/100		Vatican State	
	25.13	50/100		Cairo, Un. Arab Republic	
	25.13	10/100		R. Japan, Japan	
	25.13	1/10/50		R. Kuwait, Kuwait	
	25.13	3	ZPA5	R. Encarnacion, Paraguay	
	25.13	10/100	VUD	AIR, Delhi, India	
11945	25.12	10/50		R. Kuwait, Kuwait	
	25.12	15/100		BBC, London, Gt. Britain	
	25.12	50	CKNK	R. Canada, Canada	
	25.12	50		R. St. KGEI, USA	
	25.12	20/100	DMQ11	Deutsche Welle, Germany	
	25.12	120/240		Peking, China	
11950	25.10	50/100		R. Nederland, Holland	
	25.10	10		Jeddah, Saudi Arabia	
	25.10	50	HLK55	Seoul, Korea	
	25.10	10/100	VUD	AIR, Delhi, India	
	25.10	7.5	PRL3	R. Dif. Educativa, Brazil	
11955	25.09	15/100		BBC, London, Gt. Britain	
	25.09	7.5/100		BBC, Singapore	
	25.09	50/100		R. Nederland, Holland	
	25.09	120/240		Peking, China	
	25.09	10/100	VUD	AIR, Delhi, India	
	25.09	7.5/100		Warsaw, Poland	
	25.09	20		R. Addis Ababa, Ethiopia	
11960	25.08	35/100		Okinawa (VOA), Ryukyu Isl.	
	25.08	15/100		BBC, London, Gt. Britain	
	25.08	35		Colombo (VOA), Ceylon	
	25.08	2.5	CE1196	Soc. Nac. de Mineria, Chile	
11965	25.07	7.5	PRB23	R. Record, Brazil	
	25.07	120/240		Peking, China	
	25.07	100		R. Nationale, Guinea (Rep.)	
	25.07	20/50		R. Liberty, Germany	
	25.07	15/100		BBC, London, Gt. Britain	
11970	25.06	7		R. Brazzaville, Congo	
	25.06	100		Amman, Jordan	
	25.06	15/100		BBC, London, Gt. Britain	
	25.06	20/50		R. Liberty, Germany	
	25.06	1/50		Chiayi (BCC), Taiwan	
	25.06	100		R. Habana, Cuba	
	25.06	50		R. Tunis, Tunisia	
11975	25.05			R. Berlin Int., Germ. (DDR)	
	25.05	120/240		Peking, China	
	25.05	10/50		ELWA, Liberia	
11980	25.04	120/240		Peking, China	
11985	25.03	1	CR6RD	Nova Lisboa, Angola	
11990	25.02	100		Praha, Czechoslovakia	
				11995–15100 kc	
12010	24.98	120/240		Peking, China	
12020	24.96	10/100	VUD	AIR, Delhi, India	
12040	24.92	15/100		BBC, London, Gt. Britain	
12050	24.90	50/100		Cairo, Un. Arab Republic	
12055	24.89			Hanoi, Vietnam (Dem. Rep.)	
	24.89	120/240		Peking, China	

kc	m	kW	Call	Stations & countries	Rem.
12095	24.80	15/100		BBC, London, Gt. Britain	
**12790	23.50		GKU5	Hailsham, Gt. Britain	
**13555	22.15		GIC33	Hailsham, Gt. Britain	
**14670	20.45	3	CHU	Dom. Observatory, Canada	
14690	20.45	20	PSF	Agencia Nac., Brazil	
*15000	20.00	2	WWVH	Puunene, Hawaii	
*	20.00	9	WWV	Lanham, USA	
*	20.00	2	JJY	Tokyo, Japan	
*	20.00	2	LOL	Buenos Aires, Argentina	
*	20.00		BPV	Peking, China	
*	20.00	20	RWM	Moscow, USSR	
15030	19.96	15/240		Peking, China	
15050	19.93			Petropavlovsk, USSR	
15060	19.92	120/240		Peking, China	
15070	19.91	15/100		BBC, London, Gt. Britain	
15080	19.89	120/240		Peking, China	
15085	19.89	20		Paradys, So. Africa	
	19.89	0.25/5		Grenada, Windw. Isl.	
15095	19.87	120/240		Peking, China	
				15100–15450 kc (19 m.b.)	
15105	19.86	10/100		R. Japan, Japan	
	19.86	50	CKNS	R. Canada, Canada	
	19.86	10/100	VUD	AIR, Delhi, India	
	19.86	15/100		BBC, London, Gt. Britain	
	19.86	7.5	ZYZ32	R. Rural Brasileira, Brazil	
15110	19.85	15/100		BBC, London, Gt. Britain	
	19.85	7.5	ZL21	Wellington, New Zealand	
	19.85	1	XERR	R.dif. Comerciales, Mexico	
	19.85			Petropavlovsk, USSR	
15115	19.85	1/30	HCJB	Voz de los Andes, Ecuador	
	19.85	10/100		R. Free Europe, Germany	
	19.85	50/100		Cairo, Un. Arab Republic	
	19.85	120/240		Peking, China	
	19.85	35/50/100		Tangier (VOA), Morocco	
	19.85			Erevan, USSR	
15120	19.84	50/60/100		R. Roma, Italy	
	19.84	25/100		Vatican State	
	19.84	35		Colombo, Ceylon	
	19.84	7.5/100		Warsaw, Poland	
	19.84	10/100	VUD	AIR, Delhi, India	
15125	19.83	100	CSA64	R. Nacional, Portugal	
	19.83	50	HLK41	Seoul, Korea	
	19.83	50/200	KCBR	Delano, USA	
15130	19.83	10/100	VUD	AIR, Delhi, India	
	19.83	15/100		BBC, London, Gt. Britain	
	19.83	50/200	KCBR	Delano, USA	
	19.83	110	WLWO	Bethany, USA	
	19.83	10/100		Allouis, France	
15135	19.82	10/100		R. Japan, Japan	
	19.82	100		R. Habana, Cuba	
	19.82	50		R. Kabul, Afghanistan	
	19.82	10	PRB24	R. Panamericana, Brazil	
	19.82	10/100		R. Free Europe, Germany	
	19.82	50	WBOU	Bound Brook, USA	
15140	19.82	15/100		BBC, London, Gt. Britain	
	19.82			Petropavlovsk, USSR	
	19.82	120/240		Peking, China	
	19.82	10/100	VUD	AIR, Delhi, India	
15145	19.81	10/100		R. Free Europe, Germany	
	19.81	15	ZYK33	R. Jornal de Comercio, Br.	
15150	19.80			Baku, USSR	
	19.80	120/240		Peking, China	
	19.80	10/50		R. Kuwait, Kuwait	
	19.80	50/200	KCBR	Delano, USA	
	19.80	7.5/100	YDC	Djakarta, Indonesia	
	19.80	40	OAX4T	R. Nacional, Lima, Peru	
	19.80	35/100		Tangier (VOA), Morocco	
15155	19.80	10	CP40	La Paz, Bolivia	
	19.80	25	ZYB9	R. Dif. de São Paulo, Brazil	
	19.80	10	CE1515	R. Corporación, Chile	
	19.80	50		ELWA, Liberia	
	19.80	7.5/50		Malolos (VOA), Philipp.	
15160	19.79	10/100	VUD	AIR, Delhi, India	
	19.79	10	XEWW	Voz de la Amer. Latina, Mex.	
	19.79	35/100		Tangier (VOA), Morocco	
	19.79	10/100		Allouis, France	
15165	19.78	50	OZF7	R. Denmark, Denmark	
	19.78	20		Damascus, Syria	
15170	19.78	10/100	LKV	R. Norway, Norway	
	19.78	10/100	VUD	AIR, Delhi, India	
	19.78	8/100		Munich (VOA), Germany	
	19.78	100		Amman, Jordan	
	19.78	10	E100	R. Free Europe, Germany	
15175	19.77	10/100	LLM	R. Norway, Norway	
	19.77	1	BEH22	Taipei, Taiwan	
	19.77	15/120		Peking, China	
15180	19.76	15/100		BBC, London, Gt. Britain	
15180	19.76	0.5	OBX4C	R. El Sol, Peru	
	19.76	100		Tangier, Morocco	
	19.76	10/50/100		R. Australia, Australia	
15185	19.76	10/100		R. Free Europe, Germany	
	19.76	35/50/100		Tangier (VOA), Morocco	
	19.76	35/100		Poro (VOA), Philippines	
	19.76	8/100		Munich (VOA), Germany	
15190	19.75	50		R. Brazzaville, Congo	
	19.75	100	OIX4	Pori, Finland	
	19.75	120/240		Peking, China	
	19.75	100		Accra, Ghana	
	19.75	25/100		Vatican State	
	19.75	10/100	VUD	AIR, Delhi, India	
	19.75	50	CKCX	R. Canada, Canada	
15195	19.74	10/100		R. Japan, Japan	
	19.74	10/100		R. Free Europe, Germany	
	19.74	110	WLWO	Bethany, USA	
	19.74			Komsomolsk, USSR	
15200	19.74	15/100		BBC, London, Gt. Britain	
15205	19.73	5	XESC	R.dif. XEMC, Mexico	
	19.73	7.5/50		Malolos (VOA), Philippines	
	19.73	20/100	DMQ15	Deutsche Welle, Germany	
	19.73	35/50/100		Tangier (VOA), Morocco	
	19.73			Kiev, USSR	
15210	19.72	50/100		Cairo, Un. Arab Republic	
	19.72	35/100		Okinawa (VOA), Ryukyu Isl.	
	19.72	50/200	KCBR	Delano, USA	
	19.72	15/100		BBC, London, Gt. Britain	
	19.72	3		R. Guarani, Paraguay	
	19.72	120/240		Peking, China	
15215	19.71	10/100		R. Free Europe, Germany	
	19.71	50	WDSI	Brentwood, USA	
15220	19.71	10/50/100		R. Australia, Australia	
	19.71	120/240		Peking, China	
	19.71	1/100	ETLF	Addis Ababa, Ethiopia	
	19.71	50/100		R. Nederland, Holland	
15225	19.70	8/100		Munich (VOA), Germany	
	19.70	50		R. Kabul, Afghanistan	
	19.70	10/100	VUD	AIR, Delhi, India	
15230	19.70	10	VLH15	Melbourne, Australia	
	19.70	15/100		BBC, London, Gt. Britain	
15235	19.69	10/100	VUD	AIR, Delhi, India	
	19.69	10/100		R. Japan, Japan	
	19.69			Komsomolsk, USSR	
	19.69	1/50		Taipei (BCC), Taiwan	
	19.69	120/240		Peking, China	
	19.69	50	WDSI	Wayne, USA	
	19.69	100		Beyruth, Lebanon	
15240	19.69	10/100		R. Belgrade, Yugoslavia	
	19.69	100		Hörby, Sweden	
	19.69	10/50/100		R. Australia, Australia	
	19.69	15/120		Peking, China	
	19.69	50		R. St. KGEI, USA	
15245	19.68	10/100	VUD	AIR, Delhi, India	
	19.68	10	ZYE21	R. Marajoara, Brazil	
	19.68	10/100		Allouis, France	
	19.68	15/100		BBC, London, Gt. Britain	
	19.68	100		Praha, Czechoslovakia	
15250	19.67	110	WLWO	Bethany, USA	
	19.67	7.5/50		Malolos (VOA), Philippines	
	19.67	35/100		Poro (VOA), Philippines	
	19.67	120/240		Peking, China	
	19.67	10/100	VUD	AIR, Delhi, India	
	19.67	100		R. Bucharest, Rumania	
	19.67			Petropavlovsk, USSR	
15255	19.66	10/100		R. Free Europe, Germany	
	19.66	50	CKSR	R. Canada, Canada	
15260	19.66	10		Tokyo (FEN), Japan	
	19.66	15/100		BBC, London, Gt. Britain	
	19.66	120/240		Peking, China	
	19.66	7.5/100		BBC, Singapore	
15265	19.66	10/100		R. Free Europe, Germany	
	19.65	35		Colombo, Ceylon	
15270	19.65	50	WDSI	Brentwood, USA	
	19.65	100		R. Habana, Cuba	
	19.65	120/240		Peking, China	
	19.65	20/100	DMQ15	Deutsche Welle, Germany	
	19.65	10/100	VUD	AIR, Delhi, India	
15275	19.64	20/100	DMQ15	Deutsche Welle, Germany	
	19.64	7.5/100		Warsaw, Poland	
	19.64	50	CKBR	R. Canada, Canada	
15280	19.63	7.5	ZL4	Wellington, New Zealand	
	19.63	50	WBOU	Bound Brook, USA	
	19.63			R. Berlin Int., Germ. (DDR)	
	19.63	1/50		Chiayi (BCC), Taiwan	
15285	19.63	20/100	DMQ15	Deutsche Welle, Germany	
	19.63	100		Praha, Czechoslovakia	

kc	m	kW	Call	Stations & countries	Rem.
15285	19.63	50		Monrovia (VOA), Liberia	
	19.63	15/100		BBC, London, Gt. Britain	
15287	19.63	100		Accra, Ghana	
15290	19.62	7.5/10	LRU	R. El Mundo, Argentina	
	19.62	50	WDSI	Brentwood, USA	
	19.62	10/100	VUD	AIR, Delhi, India	
	19.62	15/240		Peking, China	
	19.62	35/100		Tangier (VOA), Morocco	
15292	19.62	10	CR7BC	R. Clube de Mozambique	
15295	19.62	10	PRL8	R. Nac. Rio de Janeiro, Br.	
	19.62	100		Beyruth, Lebanon	
	19.62	10/100		R. Free Europe, Germany	
	19.62	20/100	DMQ15	Deutsche Welle, Germany	
15300	19.61	15/100		BBC, London, Gt. Britain	
	19.61	10	CR7BG	R.Cl. de Mozambique, Moz.	
	19.61	15/120		Peking, China	
	19.61	2	DZH9	Call of the Orient, Philipp.	
	19.61	1/50	OEI62	Wien, Austria	
	19.61	0.25	XERU	Univ. de Chihuahua, Mex.	
15305	19.60	35		Thessaloniki (VOA), Greece	
	19.60	100	HER6	Schwarzenburg, Switzerland	
	19.60	10		Dacca, Pakistan	
	19.60	1/50	OEI64	Wien, Austria	
	19.60	10/100	VUD	AIR, Delhi, India	
15310	19.60	50/200	KCBR	Delano, USA	
	19.60	15/100		BBC, London, Gt. Britain	
	19.60	25/100		BBC, Singapore	
	19.60	10/100	VUD	AIR, Delhi, India	
15313	19.59	15/120		Peking, China	
15315	19.59	100	HEU6	Schwarzenburg, Switzerland	
	19.59			Erevan, USSR	
	19.59	100	ETLF	Addis Ababa, Ethiopia	
	19.59	10/50/100		R. Australiá, Australia	
15320	19.58	50	CKCS	R. Canada, Canada	
	19.58	1/50		Chiayi (BCC), Taiwan	
	19.58			Kaunas, USSR	
15325	19.58	50/60/100		R. Roma, Italy	
	19.58	50	WBOU	Bound Brook, USA	
	19.58	10/100		R. Japan, Japan	
15330	19.57	120		R. Sofia, Bulgaria	
	19.57	25/100	WGEO	Schenectady, USA	
	19.57	10/50/100		R. Australia, Australia	
	19.57	35/100		Tangier (VOA), Morocco	
	19.57	8/100		Munich (VOA), Germany	
15335	19.56	7.5	ZYU60	R. Soc. Farroupilha, Brazil	
	19.56	100/20	ORU	Wavre, Belgium	
	19.56			Komsomolsk, USSR	
	19.56	50		R. Televisora Nac., Colombia	
	19.56	50	HLK42	Seoul, Korea	
	19.56	35/100		Poro (VOA), Philippines	
15340	19.56	100		R. Habana, Cuba	
	19.56	1/100	ETLF	Addis Ababa, Ethiopia	
	19.56			R. Berlin Int., Germ. (DDR)	
	19.56	20/50		R. Liberty, Germany	
15345	19.55	5/7.5		R. Athens, Greece	
	19.55	1/50		Taipei (BCC), Taiwan	
	19.55	100	LRA33	R. Nacional, Argentina	
	19.55	50		Sebaa-Aioun, Morocco	
	19.55	100	ETLF	Addis Ababa, Ethiopia	
	19.55	20		R. Addis Ababa, Ethiopia	
	19.55	100		Amman, Jordan	
	19.55	120/240		Peking, China	
15350	19.54	5		R. Luxembourg, Luxemb.	
	19.54	50/100		Cairo, Un. Arab Republic	
15355	19.53	10/100		R. Free Europe, Germany	
	19.53	110	WLWO	Bethany, USA	
15360	19.53	10/100		R. Free Europe, Germany	
	19.53	35/100		Poro (VOA), Philippines	
	19.53	15/100		BBC, London, Gt. Britain	
15365	19.52	10/100		R. Free Europe, Germany	
	19.52	50/100		R. Nederland, Holland	
	19.52	10/100	VUD	AIR, Delhi, India	
15370	19.52	10	ZYC9	R. Tupi, Brazil	
	19.52	10/50/100		R. Australia, Australia	
	19.52	20/50		R. Liberty, Germany	
	19.52	50	HLK34	Seoul, Korea	
	19.52	120/240		Peking, China	
	19.52	10/100	VUD	AIR, Delhi, India	
	19.52	35/100		Okinawa (VOA), Ryukyu Isl.	
15375	19.51	15/100		BBC, London, Gt. Britain	
	19.51	35/100		Colombo, Ceylon	
15380	19.50	100	CSA42	R. Nacional, Portugal	
	19.51	50/80	WRUL	Worldwide Br., N.Y., USA	
	19.51	10/100		R. Japan, Japan	
	19.51	100		R. Bucharest, Rumania	
15385	19.50	10	CXA70	R. Sarandi, Uruguay	
	19.50	50/80	WRUL	Worldwide Br., N.Y., USA	
15385	19.50	50		Monrovia (VOA), Liberia	
	19.50	50	DZF3	Call of the Orient, Philipp.	
15390	19.49	10/100		R. Japan, Japan	
	19.49	15/100		BBC, London, Gt. Britain	
15395	19.49	20/50		R. Liberty, Germany	
	19.49	8/100		Munich (VOA), Germany	
15400	19.48	35/100		Poro (VOA), Philippines	
	19.48	15/100		BBC, London, Gt. Britain	
	19.48	50/60/100		R. Roma, Italy	
15405	19.47	10/100		R. Free Europe, Germany	
	19.47	110	WLWO	Bethany, USA	
	19.47	10/50		Karachi, Pakistan	
	19.47	50/200	KNBH	Dixon, USA	
15410	19.47	0.35		Paramaribo, Surinam	
	19.47	50	WBOU	Bound Brook, USA	
	19.47	20/100	DMQ15	Deutsche Welle, Germany	
15415	19.46	35		Colombo (VOA), Ceylon	
	19.46	100	ELTF	Addis Ababa, Ethiopia	
	19.46	1	ZYR206	R.Cl. de Ribeirão Preto. Br.	
15417	19.46	120/240		Peking, China	
15420	19.46	10/100		R. Free Europe, Germany	
	19.46	100		R. Nacional, Spain	
	19.46	15/100		BBC, London, Gt. Britain	
	19.46	100		Hörby, Sweden	
15422	19.46			Novosibirsk, USSR	
15425	19.45	50/100		R. Nederland, Holland	
	19.45	10	VLX15	Perth, Australia	
				15427–17700 kc	
15430	19.44	120/240		Peking, China	
	19.44	35/50/100		Tangier (VOA), Morocco	
	19.44	50/100		Cairo, Un. Arab. Republic	
	19.44	20/50		R. Liberty, Germany	
	19.44			Kazan, USSR	
15435	19.44	15/100		BBC, London, Gt. Britain	
	19.44	20/100	ORU	Wavre, Belgium	
	19.44	7.5/100		BBC, Singapore	
15440	19.43	8/100		Munich (VOA), Germany	
	19.43	50/80	WRUL	Worldwide Br., N.Y., USA	
	19.43	100		Amman, Jordan	
15445	19.43	50/100		R. Nederland, Holland	
	19.43	50		R. Brazzaville, Congo	
	19.43	15/120		Peking, China	
	19.43	10		R. Nac. Brasilia, Brazil	
	19.42	15/100		BBC, London, Gt. Britain	
15448	19.42	100		Praha, Czechoslovakia	
15450	19.42	50		R.dif. Nationale, Congo Rep.	
15457	19.41			Komsomolsk, USSR	
15475	19.38	50/100		Cairo, Un. Arab Republic	
15480	19.38	15/120		Peking, China	
	19.38	1	BEH22	Taipei, Taiwan	
15490	19.36			Erevan, USSR	
15500	19.35	120/240		Peking, China	
15520	19.33	120/240		Peking, China	
15550	19.29	15/120		Peking, China	
15590	19.24	15/120		Peking, China	
15610	19.22	15/120		Peking, China	
15710	19.10	15/120		Peking, China	
15720	19.08	7.5/20		Omdurman, Sudan	
15880	18.89	15/120		Peking, China	
17450	17.20	15/120		Peking, China	
17490	17.15	15/120		Peking, China	
17533	17.11	15/120		Peking, China	
17544	17.09	1		R. Oglaig, Ireland	
17605	17.04	15/120		Peking, China	
17635	17.01	15/120		Peking, China	
17640	17.00	10		Dacca, Pakistan	
17680	16.97	120/240		Peking, China	
**17685	16.96		GIC37	Hailsham, Gt. Britain	
17690	16.96	50/100		Cairo, Un. Arab Republic	
17695	16.95	15/100		BBC, London, Gt. Britain	
				17700–17900 kc – 16 metre band	
17700	16.95	15/100		BBC, London, Gt. Britain	
17705	16.94	10/100	VUD	AIR, Delhi, India	
	16.94	35/50/100		Tangier (VOA), Morocco	
17710	16.94	110	WLWO	Bethany, USA	
	16.94	50	CHSB	R. Canada, Canada	
17715	16.93	15/100		BBC, London, Gt. Britain	
	16.93	10/50/100		R. Australia, Australia	
17720	16.93	10/100	VUD	AIR, Delhi, India	
	16.93	1/50	OEI77	Wien, Austria	
	16.93	100	HEU7	Schwarzenburg, Switzerland	
	16.93	120/240		Peking, China	
	16.93	1.5/50		R. Brazzaville, Congo	
17725	16.93	10/100		R. Free Europe, Germany	
	16.93	10/100	VUD	AIR, Delhi, India	
	16.93	10/100		R. Japan, Japan	
	16.93	1	ZYR232	R. Universitaria, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
17730	16.92	15/100		BBC, London, Gt. Britain	
	16.92	20/50		R. Liberty, Germany	
	16.92	50/100		Cairo, Un. Arab Republic	
	16.92	120/240		Peking, China	
17735	16.92	50/200	KCBR	Delano, USA	
	16.92	10/100		R. Free Europe, Germany	
	16.92	50	CHRX	R. Canada, Canada	
17740	16.91	15/100		BBC, London, Gt. Britain	
	16.91	50/60/100		R. Roma, Italy	
	16.91	100	ELTF	Addis Ababa, Ethiopia	
	16.91	10/100	VUD	AIR, Delhi, India	
17745	16.91	15/100		BBC, London, Gt. Britain	
	16.91			Kursk, USSR	
	16.91	120/240		Peking, China	
	16.91	5/7.5		R. Athens, Greece	
	16.91			Komsomolsk, USSR	
	16.91	10/50		Karachi, Pakistan	
	16.91	7.5/50		Malolos (VOA), Philippines	
17750	16.90	10/50		Karachi, Pakistan	
	16.90	35		Colombo (VOA), Ceylon	
	16.90	20		R. Addis Ababa, Ethiopia	
	16.90	1/50/100		R. Kuwait, Kuwait	
	16.90	35/50/100		Tangier (VOA), Morocco	
17755	16.90	7.5/100		BBC, Singapore	
	16.90	100		Praha, Czechoslovakia	
	16.90	10/100	LKW	R. Norway, Norway	
	16.90	10/100		R. Japan, Japan	
	16.90	15/100		BBC, London, Gt. Britain	
17760	16.89	10/100	VUD	AIR, Delhi, India	
	16.89			Lvov, USSR	
	16.89	50/100		Cairo, Un. Arab Republic	
	16.89	50/80	WRUL	Worldwide Br., N.Y., USA	
17765	16.89	120/240		Peking, China	
	16.89	1/50	OEI72	Wien, Austria	
	16.89	20/50		R. Liberty, Germany	
	16.89	50/200	KCBR	Delano, USA	
	16.89	10/100		Allouis, France	
17770	16.88	50/60/100		R. Roma, Italy	
	16.88	10/100		R. Free Europe, Germany	
17775	16.88	50/100		R. Nederland, Holland	
	16.88	20/50		R. Liberty, Germany	
	16.88			Ulan Ude, USSR	
17780	16.87	15/120		Peking, China	
	16.87	25/100		Vatican State	
	16.87	8/100		Munich (VOA), Germany	
	16.87	10/100	VUD	AIR, Delhi, India	
	16.87	50	WBOU	Bound Brook, USA	
17785	16.87			Tula, USSR	
	16.87	20/50		R. Liberty, Germany	
	16.87	1/50		Taipei (BCC), Taiwan	
	16.87	100	HER7	Schwarzenburg, Switzerland	
	16.87	50		Monrovia (VOA), Liberia	
17790	16.86	15/100		BBC, London, Gt. Britain	
17795	16.86	10/100	VUD	AIR, Delhi, India	
	16.86	10/100		R. Japan, Japan	
	16.86	100	HEI8	Schwarzenburg, Switzerland	
	16.86	10/100		Tbilisi, USSR	
	16.86	100	WLWO	Bethany, USA	
	16.86			Armavir, USSR	
	16.86	110	WLWO	Bethany, USA	
	16.86	10	CR6RZ	R. Angola, Angola	
17800	16.85	10/100	VUD	AIR, Delhi, India	
	16.85	120		R. Sofia, Bulgaria	
	16.85	50/100		R. Nederland, Holland	
	16.85	50/60/100		R. Roma, Italy	
	16.85	7.5/100		Warsaw, Poland	
17805	16.85	2/10	DZI6	Call of the Orient, Philipp.	
	16.85	10/100		R. Free Europe, Germany	
17810	16.84	15/100		BBC, London, Gt. Britain	
	16.84	50/100		R. Nederland, Holland	
	16.84	120/140		Peking, China	
17815	16.84	20/100	DMQ17	Deutsche Welle, Germany	
	16.84	10		R. Cultura, Brazil	
	16.84	50	HLK46	Seoul, Korea	
	16.84			Simferopol, USSR	
	16.84	10/100	VUD	AIR, Delhi, India	
17820	16.84	50	CKNC	R. Canada, Canada	
	16.84	10/50/100		R. Australia, Australia	
	16.84	50/200	KCBR	Delano, USA	
	16.84	35		Colombo, Ceylon	
	16.84	100	TAV	R. Ankara, Turkey	
17825	16.83	10/100	LLN	R. Norway, Norway	
	16.83			R. Berlin Int., Germ. (DDR)	
	16.83			Kursk, USSR	
17830	16.83	10/100	VUD	AIR, Delhi, India	
	16.83	1/50	OEI79	Wien, Austria	
	16.83	25	WGEO	Schenectady, USA	

kc	m	kW	Call	Stations & countries	Rem.
17830	16.83	50	WBOU	Bound Brook, USA	
	16.83	50	WDSI	Wayne, USA	
17835	16.82	120/240		Peking, China	
	16.82	100	CSA209	R. Nacional, Portugal	
	16.82	10/100		R. Free Europe, Germany	
17840	16.82	15/100		BBC, London, Gt. Britain	
	16.82	100		Hörby, Sweden	
	16.82	10/100		R. Free Europe, Germany	
	16.82	50/100		R. Nederland, Holland	
	16.82	10/50/100		R. Australia, Australia	
	16.82	1/50	OEI78	Wien, Austria	
	16.82	25/100		Vatican State	
17845	16.81	20/100	DMQ17	Deutsche Welle, Germany	
	16.81	35/100		Poro (VOA), Philippines	
	16.81	100		Hörby, Sweden	
	16.81	20/100	ORU	Wavre, Belgium	
	16.81	50		R. Tunis, Tunisia	
	16.81	50/80	WRUL	Worldwide Br., N.Y. USA	
17850	16.81	10/100		Allouis, France	
	16.81			Tiraspol, USSR	
	16.81	50/200	KNBH	Dixon, USA	
17855	16.80	10/100		R. Free Europe, Germany	
	16.80	50	WBOU	Bound Brook, USA	
	16.80	35/100		Tangier (VOA), Morocco	
	16.80	10/100	VUD	AIR, Delhi, India	
17860	16.80	15/100		BBC, London, Gt. Britain	
	16.80	25/100		Vatican State	
	16.80			Kursk, USSR	
	16.80	120/240		Peking, China	
	16.80	20/100	ORU	Wavre, Belgium	
17865	16.80	20		Damascus, Syria	
	16.79			Khabarovsk, USSR	
	16.79	40	CHYS	R. Canada, Canada	
17870	16.79	15/100		BBC, London, Gt. Britain	
	16.79	10/50/100		R. Australia, Australia	
	16.79	50	WBOU	Bound Brook, USA	
17875	16.79	20/100	DMQ17	Deutsche Welle, Germany	
	16.79			Ulan Ude, USSR	
	16.79	50/100		Cairo, Un. Arab Republic	
	16.79	10/100		R. Free Europe, Germany	
	16.79	7.5	PRC2	R.dif. Educative, Brazil	
17880	16.78			Erevan, USSR	
	16.78	100	CSA45	R. Nacional, Portugal	
17885	16.78			Petropavlovsk, USSR	
	16.78	100	CSA45	R. Nacional, Portugal	
	16.78	120/240		Peking, China	
	16.78	10/100		R. Free Europe, Germany	
	16.78	20/50		R. Liberty, Germany	
17890	16.77	15/100		BBC, London, Gt. Britain	
	16.77	30	HCJB	Voz de los Andes, Ecuador	
17895	16.76	100	CSA66	R. Nacional, Portugal	
	16.76	10/100		R. Japan, Japan	
	16.76			Kaunas, USSR	
17900	16.76	15/240		Peking, China	
				17910–21450 kc	
17905	16.75	50/100		Cairo, Un. Arab Republic	
17910	16.75	100		Accra, Ghana	
17920	16.74	50/100		Cairo, Un. Arab Republic	
18080	16.59	15/100		BBC, London, Gt. Britain	
*18985	15.94	8	OLD2	Praha, Czechoslovakia	
**19640	15.20		GIA39	Hailsham, Gt. Britain	
*20000	15.00	1	WWV	Lanham, USA	
				21450–21750 kc	
21450	13.99	100		Praha, Czechoslovakia	
21455	13.98	35/50/100		Tangier (VOA), Morocco	
	13.98	15/100		BBC, London, Gt. Britain	
21460	13.98	50/80	WRUL	Worldwide Br., N.Y., USA	
	13.98	50/200	KCBR	Delano, USA	
	13.98	100		R. Habana, Cuba	
21470	13.97	15/100		BBC, London, Gt. Britain	
21475	13.97			Novosibirsk, USSR	
21480	13.97	50/100		R. Nederland, Holland	
21485	13.96	110	WLWO	Bethany, USA	
	13.96	15/100		BBC, London, Gt. Britain	
	13.96	10/100		R. Free Europe, Germany	
21490	13.96	15/100		BBC, London, Gt. Britain	
	13.96	25/100		Vatican State	
21495	13.96	100	CSA67	R. Nacional, Portugal	
21500	13.95	1.5/50		R. Brazzaville, Congo	
21510	13.94	110	WLWO	Bethany, USA	
	13.94	20/100	ORU	Wavre, Belgium	
21515	13.94	25/100		Vatican State	
	13.94	2	DZI8	Call of the Orient, Philipp.	
21520	13.94	100	HER8	Schwarzenburg, Switzerland	
21525	13.94			Vologda, USSR	
21530	13.93	15/100		BBC, London, Gt. Britain	
21535	13.93	0.5		ELWA, Liberia	

kc	m	kW	Call	Stations & countries	Rem.
21540	13.93	10/50/100		R. Australia, Australia	
	13.93	50	WBOU	Bound Brook, USA	
21545	13.92	100		Accra, Ghana	
21550	13.92	15/100		BBC, London, Gt. Britain	
	13.92			Chita, USSR	
21560	13.91	50/60/100		R. Roma, Italy	
21565	13.91	50/100		R. Nederland, Holland	
21570	13.91	50	WBOU	Bound Brook, USA	
21580	13.90	10/100		Allouis, France	
	13.90	10/100	VUD	AIR, Delhi, India	
21590	13.90	8/100		Munich (VOA), Germany	
	13.90	10/50		Karachi, Pakistan	
	13.90	25/100	WGEO	Schenectady, USA	
21595	13.89	15/100		BBC, London, Gt. Britain	
21600	13.89	15/100		BBC, London, Gt. Britain	
	13.89	10/100		R. Free Europe, Germany	
	13.89	50	CKRP	R. Canada, Canada	
	13.89			Komsomolsk, USSR	
21605	13.89	100	HEI9	Schwarzenburg, Switzerland	
21610	13.88	110	WLWO	Bethany, USA	
21615	13.88	15/100		BBC, London, Gt. Britain	
21620	13.87	10/100		R. Free Europe, Germany	
	13.87	10/100		Allouis, France	
21625	13.87			Kursk, USSR	
	13.87	50/100		R. Nederland, Holland	
21630	13.87	15/100		BBC, London, Gt. Britain	
	13.87			Khabarovsk, USSR	
	13.87	100		R. Habana, Cuba	
21640	13.86	15/100		BBC, London, Gt. Britain	
21645	13.86	50	WDSI	Wayne, USA	
21650	13.86	20/100	DMQ21	Deutsche Welle, Germany	
	13.86	15/100		BBC, London, Gt. Britain	
	13.86	50/200	KNBH	Dixon, USA	
21655	13.85	15/100		BBC, London, Gt. Britain	
21660	13.85	15/100		BBC, London, Gt. Britain	
21665	13.85	10/100		R. Free Europe, Germany	
21670	13.85	1/50	OEI85	Wien, Austria	
21675	13.84	15/100		BBC, London, Gt. Britain	
21680	13.84	15/100		BBC, London, Gt. Britain	
21685	13.83	10		Dacca, Pakistan	
21690	13.83	20		Paradys, So. Africa	
21695	13.83	35/50/100		Tangier (VOA), Morocco	
21700	13.83	100	CSA49	R. Nacional, Portugal	
	13.82	10/100	VUD	AIR, Delhi, India	
21705	13.82	20/100	DMQ21	Deutsche Welle, Germany	
21710	13.82	15/100		BBC, London, Gt. Britain	
21715	13.82	50/100		R. Nederland, Holland	
21720	13.81	15/100		BBC, London, Gt. Britain	
	13.81	10/100		R. Free Europe, Germany	
21730	13.81	5	LLQ	R. Norway, Norway	
21740	13.80	50	WDSI	Brentwood, USA	
	13.80	15/100		BBC, London, Gt. Britain	
21745	13.80	10/100		R. Free Europe, Germany	
	13.80	50/200	KCBR	Delano, USA	
*25000	12.00	0.1	WWV	Lanham, USA	
		25600–26100 kc (11 m.b.)			
25610	11.71	50/100		R. Nederland, Holland	
25650	11.70	100		BBC, London, Gt. Britain	
25670	11.69	100		BBC, London, Gt. Britain	
25720	11.66	100		BBC, London, Gt. Britain	
25735	11.66	10		R. Australia, Australia	
25750	11.65	100		BBC, London, Gt. Britain	
25840	11.61	100		BBC, London, Gt. Britain	
25850	11.60	15/100		BBC, London, Gt. Britain	
25900	11.58	2	LLA	R. Norway, Norway	
25920	11.57	15/100		BBC, London, Gt. Britain	
26040	11.52	15/100		BBC, London, Gt. Britain	
	11.52	50/100		R. Nederland, Holland	
26080	11.50	15/100		BBC, London, Gt. Britain	

REPORTED INFORMATION:

GAMBIA: R. Gambia (Go.), Bathurst: 5965 kc 1 kW: 17.30–20.00.

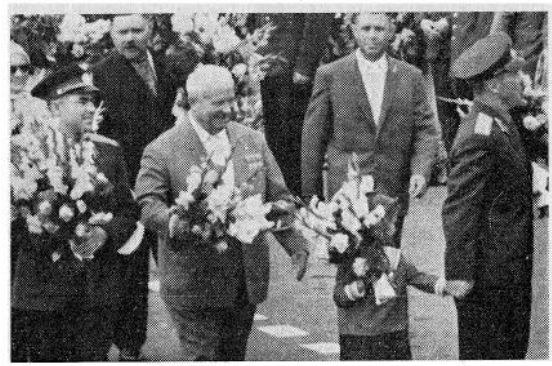
NORWAY: UKE-Senderen:

Addr.: The Technical University of Norway, Trondheim.

STATIONS: 1115 kc 269.1 m 0.5 kW – 1484 kc 202.2 m 0.5 kW – 7210 kc 41.61 m 0.5 kW – 9610 kc 31.22 m 0.5 kW – **FM:** 94.75 Mc 1 kW.

HOME SCE. in Norwegian: Every year approx. 3 weeks during September/October as follows: Mo-Fri 14.00–15.00 when on normal clock time, otherwise: Sun-Fri 22.00–23.00, Sat 22.30–23.30 (times approx). **Prgr's** consist of shows, mailbag prgr's, requests and various entertainment as well as commercials in Norwegian, French, German, Finnish. Occasionally prgr's in English. V. by QSL-card. Rp. desirable.

LAST MINUTE INFORMATION



One of the great events in 1962 was the double space trip of the two cosmonauts, Nikolajev and Popovitj. Their tremendous reception in Moscow was televised and broadcast to most of the world. N. S. Hrustjov is here seen on Vnukovo airfield between the two cosmonauts - Nikolajev on the extreme left, Popovitj on the right.

WHERE TO OBTAIN THE WRTH: Australia: Add: Book Centre Ltd., 257 Rundle Str., Adelaide, So. Australia – Ellison Hawker, 92 Liverpool Str., Hobart, Tasmania – McGills Authorised Newsagency, 183 Elizabeth Str., Melbourne C1, Vic.

ARGENTINA: Commercial stations: Addr. of ARPA: Cangallo 1561, Buenos Aires. **Te.:** 35-4412.
Stations 20) 580 kc 10/5 kW – 27) 3 kW – 36) 830* kc – 34) 1100[3] kc – 53) 670* kc.

CANADA: CBC, Int. Service: DX-Prgr. in English every other Sat. during regular English prgr's to Europe (20.45–21.30), Africa (18.32–19.15), Caribbean (23.00–23.30), Australasia (08.30–09.00). In German every other Sun (18.15–18.30).

CZECHOSLOVAKIA: Foreign Service: Arabic: 12.30–13.00 on 11725 (a), 15285 (f), 17755 (i), 21450 kc (c); 16.30–17.25 on 11990 (h), 15285 (c, i), 15448 kc (c, i); 20.00–21.00 on 5930, 6025 (a), 9550 kc (f) – **Greek:** 17.20–18.00 on 5930/7345 kc (a); 19.30–20.00 on 5930/6025 kc (a) – **Serbocroatian:** 09.30–10.00 (Sun only) on 7235, 9550, 11725 kc (a); 15.30–16.00 on 6055, 7345 kc (a); 18.00–18.30 on 5930, 6025 kc (a).

MONACO: Trans World Radio: Presently planning for one 250 kW sw-tr. and one 50 kW mw-tr. (System: Continental Electronics) in Curaçao (Neth. Antilles). Expected completion 15. Nov. 1963.

STANDARD FREQUENCY AND TIME SIGNAL STATIONS: BPV, Peking, China: Continuous transmission 7 days per week on 5, 10, 15 Mc Modulation frequencies: one second pulses and 1000 c/s tone. **Schedule:** Minute 0–3: one second pulses; 3–5 call (BPV) cw; 5–10: 1000 c/s tone; 10–15: Carrier only. This schedule repeated every 15 minutes.

TAIWAN; BCC: no information received.

WEST NEW GUINEA/WEST IRIAN: Until May 1963 under the temporary executive authority of the United Nations (UNTEA) – **Radio West New Guinea/Irian Barat: Addr.:** Hollandia, Kota Baru. **L.P.:** Head of Broadcasting Services: Dr. H. Szuszkiewicz.
Home Services: Dutch: D 09.30–12.30 on 6070 kc, Sat 03.30–04.00, Sun 00.30–01.30, 02.30–03.45 on 3375, 6070, 7230 kc. **N. in Dutch:** 05.10, 08.15. **N. in English:** 05.20, 08.00, 12.30. **Indonesian:** On 3375/7230 kc (also on 6070 kc exc. 09.30–12.35): Mo–Fri 23.30–02.30, 07.30–13.30. Sat 23.30–03.30, 04.00–05.00, 07.30–13.30. Sun 23.30–00.30, 01.30–02.30, 03.45–04.30, 07.30–13.30. **N:** 05.00, 08.30, 12.00. **Reg. Stations:** 08.30–10.30 relay Hollandia, 10.30–12.30 local prgr's – **ANN.:** E: "This is R. West New Guinea–West Irian calling from Hollandia/Kota Baru". Dutch: "Hier is R. West Nieuw Guinea–Irian Barat de Hollandia–Kotabaru". Indonesian: "Inilah R. West Nieuw Guinea–Irian Barat di Hollandia–Kota Baru" – **INT.-SIG.:** Birds and Kaido (mouthharp).

LIST OF SHORT WAVE STATIONS OF THE WORLD:
Add.: OEI 67 15295 kc 1/50 kW – OEI 65 15405 kc 1/50 kW – OEI 66 15410 kc 1/50 kW – OEI 78 17840 kc 1/50 kW – OEI 702 17875 kc 1/50 kW – OEI 701 17890 kc 1/50 kW.

DX-CLUBS OF THE WORLD

BELGIUM AND HOLLAND: Benelux DX-Club, Oude Amersfoortseweg 153, Hilversum. Editorial addr.: De Ruyschlaan 195, Amstelveen. (Publ.: "Benelux DX-Club" in Dutch and English) – **CANADA: Canadian DX-Club,** Lawrence Ave., Don Mills, Ont. – **Delta Echo Radio,** Box 1106, Parry Sound, Ont. (Publ.: "RF") – **DX Organization of Winnipeg,** 430 Inkster Blvd., Winnipeg 4, Manitoba – **DENMARK: The Danish Shortwave Club International,** Box 53, Frederikshavn. (See adv.) – **The Cimbrer DX-Club,** Vestervang 3, Aars (Publ.: "The Cimbrer DX-News") – **FINLAND: Federation of Finnish DX-Clubs,** Parksvägen 19C, Drumsö – **DX Kerho Suomi,** ry, Box 454, Helsinki 31 (Publ.: DX) – **Finlands DX-Club,** r.f., Box 214, Helsinki. DX-prgrs. from Finnish Bc.Co. (Publ.: "Attention" in English, Swedish) – **Finlands Svenska DX-Förbund,** Kungsgatan 11, Ekenäs (Publ.: "Frekvensnytt" in Swedish free of charge to members). Affiliated clubs: Jacobstads DX-Club, Skutkullvägen 1. Esbo DX-Club, Morby. 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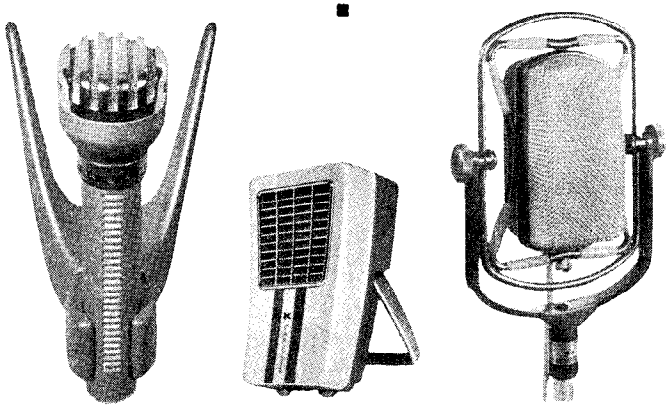

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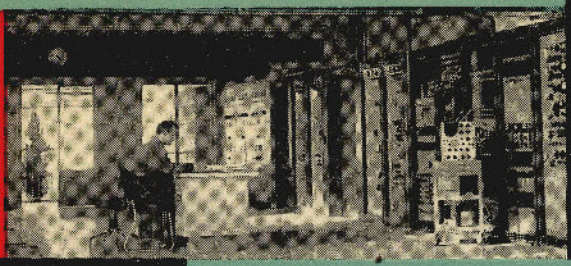

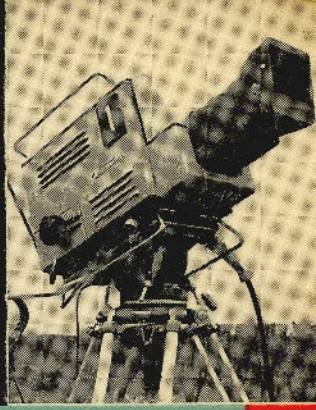

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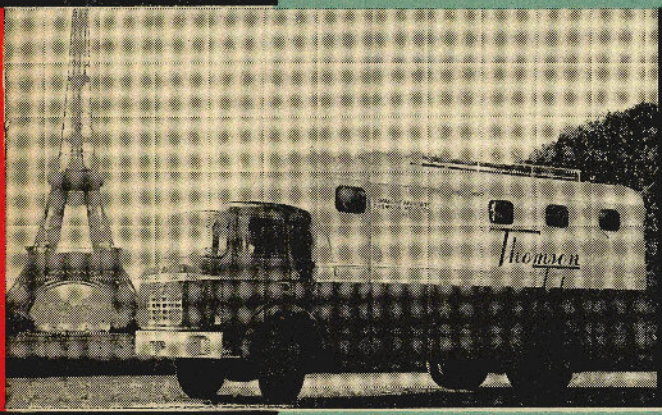

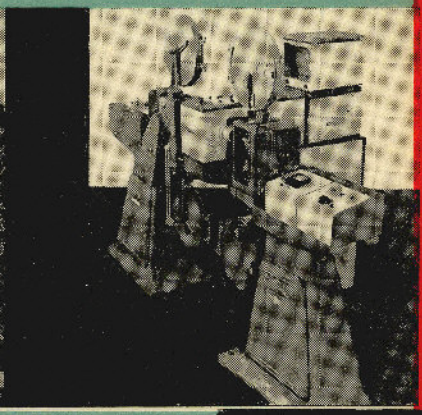

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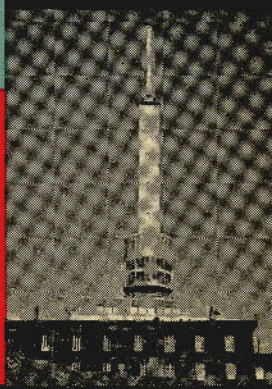

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